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American Foundrymen's Association

ORGANIZED MAY 12, 1896

CONSTITUTION AND MEMBERSHIP LIST



OFFICE OF THE ASSOCIATION
"CASTLE ELSINORE"
WATCHUNG, N. J.

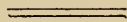
1913



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CONVENTIONS OF THE AMERICAN FOUNDRYMEN'S ASSOCIATION

Year.	Convention City.	President.
1896.	Philadelphia.....	*Francis Schuman, Philadelphia, Pa.
1897.	Detroit.....	*Francis Schuman, Philadelphia, Pa.
1898.	Cincinnati.....	*Francis Schuman, Philadelphia, Pa.
1899.	Pittsburgh.....	*C. S. Bell, Hillsboro, O.
1900.	Chicago.....	J. S. Seaman, Pittsburgh, Pa.
1901.	Buffalo.....	W. A. Jones, Chicago, Ill.
1902.	Boston.....	*J. S. Sadlier, Springfield, O.
1903.	Milwaukee.....	A. W. Walker, Boston, Mass.
1904.	Indianapolis.....	Willis Brown, Buffalo, N. Y.
1905.	New York.....	Chris. J. Wolff, Chicago, Ill.
1906.	Cleveland.....	Thos. D. West, Cleveland, O.
1907.	Philadelphia.....	W. H. McFadden, Ponca City, Okla.
1908.	Toronto.....	Stanley G. Flagg, Jr., Philadelphia, Pa.
1909.	Cincinnati.....	L. L. Anthes, Toronto, Ont.
1910.	Detroit.....	Arthur T. Waterfall, Detroit, Mich.
1911.	Pittsburgh.....	Maj. Jos. T. Speer, Pittsburgh, Pa.
1912.	Buffalo.....	Maj. Jos. T. Speer, Pittsburgh, Pa.
1913.	Chicago.....	H. D. Miles, Buffalo, N. Y.

* Deceased.

VICE-PRESIDENTS.

Anthes, L. L.....Toronto, Ont.....1906, 1907.
 Anthony, E. W.....Boston, Mass.....1904.

Bair, Adam.....Milwaukee, Wis.....1902, 1903, 1905.

*Bauer, C. A. Springfield, O. 1898, 1899, 1901.

Beckett, J. A. Hoosick Falls, N. Y. . 1902, 1903.

Beckwith, A. K. Dowagiac, Mich. . . . 1903, 1904, 1905.

*Bell, C. S.....Hillsboro, O.....1897.

Best, T. J.....Montreal, P. Q.....1896, 1897, 1898,
1899, 1900, 1901,
1902, 1903, 1904,
1905.

Bole, Wm. A.....Pittsburgh, Pa.....1910.

Buckingham, Geo. B...Worcester, Mass....1900.

Bull, R. A.....Granite City, Ill.....1911, 1912.

Burr, J. W.....Brooklyn, N. Y.....1906, 1907.

Caley, C. J.....New Britain, Conn..1906, 1907.

Carpenter, Henry R...Providence, R. I.....1905.

Chadsey, S. B.....Toronto, Ont.....1911, 1912.

Chartrey, R.....San Francisco, Cal...1898, 1899, 1900.

Clare, A. N. W.....Preston, Ont.....1909, 1910.

Cluff, R. J.....Toronto, Ont.....1908.

Colvin, T. H.....Providence, R. I....1901.

Diller, H. E. Erie, Pa. 1904.

Evans, Henry C.....Chattanooga, Tenn..1896.

Farnsworth, F. B.....New Haven, Conn...1908, 1909, 1910,
1911, 1912.

Ferguson, Wm.....Chicago, Ill.....1900.

Field, H. E. Pittsburgh, Pa. 1907.

Findley, A. I.....Cleveland, O.....1902.

* Deceased.

- Flagg, Stanley G., Jr. . . . Philadelphia, Pa. . . . 1906.
Frank, I. N. Pittsburgh, Pa. . . . 1897, 1898.

Gibby, F. W. Boston, Mass. . . . 1896.
Gilbert, Wm. Cincinnati, O. . . . 1909, 1910.
Gilmour, E. P. Milwaukee, Wis. . . . 1901.
Golden, J. P. Columbus, Ga. . . . 1899, 1900, 1901,
1902, 1903, 1904,
1905, 1906, 1907.

Howell, Alfred E. Nashville, Tenn. . . . 1909, 1910, 1911,
1912.

Jeffrey, J. W. Columbus, O. . . . 1908.
Johnston, S. T. Chicago, Ill. . . . 1908.
Jones, W. A. Chicago, Ill. . . . 1899.

Keep, W. J. Detroit, Mich. . . . 1906.
*Kissick, J. W. Columbus, Ga. . . . 1908.

Lanigan, J. F. Lawrence, Mass. . . . 1902.
Lombard, G. R. Augusta, Ga. . . . 1911, 1912.

Magee, John. Chelsea, Mass. . . . 1903.
*McLaren, John. Pittsburgh, Pa. . . . 1903.
Miles, H. D. Buffalo, N. Y. . . . 1911.
*Mills, John. Port Chester, N. Y. . 1904.
Moldenke, Dr. R. Pittsburgh, Pa. . . . 1899.
Mosher, W. S. Dallas, Tex. . . . 1896, 1897, 1898,
1899, 1900.

Newcomb, C. L. Holyoke, Mass. . . . 1898.

Parry, Wm. H. Brooklyn, N. Y. . . . 1908.
Penton, John A. Detroit, Mich. . . . 1900.
Prince, W. F. Elizabethport, N. J. . 1901.
Putnam, E. H. Moline, Ill. . . . 1897, 1898.

Richmond, T. L. Buffalo, N. Y. . . . 1912.

* Deceased.

Scott, Irving.....San Francisco, Cal...1896.
Sessions, W. E.....Bristol, Conn.....1897.
Sheriff, T. J.....Milwaukee, Wis.....1904, 1906, 1907,
1908, 1909, 1910,
1911, 1912.

Sleeth, S. D. Pittsburgh, Pa. 1901.

*Slocum, A. V. Pittsburgh, Pa. 1905.

Smith, Eugene.....Chicago, Ill.....1901, 1909.

Speer, Maj. Jos. T.....Pittsburgh, Pa.....1909.

Spence, David.....Chicago, Ill.....1905.

Sweeney, J. M.....Chicago, Ill.....1896.

Taylor, Robt. G.....Pittsburgh, Pa.....1896.

*Thomas, D. J.....Pittsburgh, Pa.....1904.

Van Atta, H.....New York, N. Y....1905.

Walker, A. W.....Boston, Mass.....1899.

Whiting, J. H.....Chicago, Ill.....1906.

Wilson, J. W.....Detroit, Mich.....1910.

Wolff, Chris. J.....Chicago, Ill.....1897, 1902, 1903.

Wood, Walter.....Philadelphia, Pa.....1909, 1910, 1911,
1912.

Yagle, Wm.....Pittsburgh, Pa.....1900.

Zimmers, F. H.....Pittsburgh, Pa.....1902.

TREASURERS.

Howard Evans.....Philadelphia, Pa.....1896 to 1900.

Thos. D. West.....Cleveland, O.....1901.

Willis Brown.....Buffalo, N. Y.....1902.

Dr. Richard Moldenke. Watchung, N. J. 1903 to date.

SECRETARIES.

John A. Penton.....Cleveland, O.....1896 to 1899.

Dr. Richard Moldenke. Watchung, N. J. 1900 to date.

* Deceased.

CONSTITUTION OF THE AMERICAN FOUNDRYMEN'S ASSOCIATION

ARTICLE I.

Name and Object.

SECTION 1. This Association shall be known as the American Foundrymen's Association.

SEC. 2. The objects of this Association shall be the advancement of the interests of foundry operators, or all who are concerned in the casting of any kind of metal in sand, or loam molds, for any purpose; to collect for use of the Association all proper information connected with the foundry business; to exchange experience and encourage uniform customs and actions among foundrymen.

ARTICLE II.

Membership.

SECTION 1. The membership of this Association shall consist of three classes to be called respectively, active, associate, and honorary members.

SEC. 2. Any person, firm or corporation, engaged in the production of castings of any kind, as employer, superintendent, foreman, or chemist, may be elected an active member; and any associate member may become an active member when recommended by the Executive Board and approved by a majority vote of the Association at any regular meeting.

SEC. 3. Any person whose knowledge or services are valuable toward the objects of this Association may be elected an Associate Member. Associate Members shall have all the rights of active membership except the power to vote.

SEC. 4. Any individual whose knowledge or services, in connection with the objects of this Association, which have made him preeminent among his fellows, may be elected an honorary member.

ARTICLE III.

SECTION 1. The officers of this Association shall consist of a President, eight Vice-Presidents, and a Secretary-Treasurer; who shall with the Past-Presidents of this Association, form its Executive Board.

The Vice-Presidents shall elect one of their number as Senior Vice-President.

ARTICLE IV.

SECTION 1. There shall be an annual meeting of this Association, the date and location of which shall be fixed by the Executive Board at least three months in advance of the said meeting.

Twenty-five members shall constitute a quorum of the Association.

SEC. 2. Meetings of the Executive Board may be called by the President or by any three members of said Board, and five members shall constitute a quorum.

ARTICLE V.

SECTION 1. This constitution may be amended at any regular meeting of the Association by a two-thirds vote of the members present, provided the Secretary—through letter ballot submitted to all active members within 30 days after adjournment—shall secure in 30 days after the submission of said letter ballot to the members, a ratification of an amendment by a majority of those returning letter ballot, signed by those voting.

 BY-LAWS
Duties of Officers.

SECTION 1. The duties of the president shall be to preside at the meetings of the Association and of the Executive Board, and to perform such other duties as usually devolve upon a presiding officer.

SEC. 2. The Senior Vice-President shall perform the duties of the President when the latter is absent or unable to perform the same, or in case of vacancy in the office of the President.

SEC. 3. The duties of the Secretary shall be to keep a full and accurate record of the proceedings of the Association and Executive Board, to make an annual report at the annual meeting, showing the number of active, associate and honorary members of the Association, the amount of dues collected, and the orders issued on the Treasurer, and he shall perform such other duties as may be assigned to him by the President or Executive Board.

SEC. 4. The duties of the Treasurer shall be to take charge of all funds of the Association, and pay them out only upon the order of the Secretary, countersigned by the President; he shall report at the annual meeting his receipts and disbursements for the year, in detail; he shall give a bond, the amount of which is to be fixed by the Executive Board.

SEC. 5. It shall be the duty of the Executive Board to manage the affairs of the Association to the best of their ability.

Membership.

SEC. 6. All applications for membership shall be made to the Secretary.

SEC. 7. On the first day of each month the Secretary shall mail to each member of the Executive Board a list of applicants for membership. If he shall not receive, by the 15th day of the same month, the written protest of two of the members of the Executive Board to any application, he shall then enroll the said applicants as members of the Association, and notify them at once of their election.

Dues.

SEC. 8. The annual dues for each active or associate member of the Association shall be \$10.00, which shall be due and payable annually in the month of July.

SEC. 9. No dues or assessments of any kind shall be collected from honorary members.

Elections.

SEC. 10. All officers of the Association shall be elected by ballot by the active members of the Association at its annual meeting; a majority vote of those voting being necessary to elect.

SEC. 11. All officers of the Association shall hold office for one year from the adjournment of the annual meeting at which they are elected, and until their successors shall have been elected. In the case of a vacancy occurring in any office during the year, the Executive Board shall fill the vacancy for the unexpired term.

Order of Business.

SEC. 12. The order of business to be observed at annual meetings shall be as follows:

(1) Reading of the minutes of the last meeting.

(2) Announcement by the President of special committees, as follows:

A committee of five to nominate officers for the following year.

A committee of three to audit the accounts of the Secretary-Treasurer.

A committee of five to report on papers to be presented to the Association.

(3) Report of officers and standing committees.

(4) Report of special committees.

(5) Unfinished business.

(6) New business.

(7) Election of officers.

Amendments.

SEC. 13. These by-laws may be amended at any regular meeting of the Association by a two-thirds vote of the members present, provided the Secretary—through letter ballot submitted to all active members within 30 days after adjournment—shall secure in 30 days after the submission of said letter ballot to the members, a ratification of an amendment by a majority of those returning letter ballot, signed by those voting.

Rules of Order.

SEC. 14. Roberts' Parliamentary Rules of Order shall be recognized as authority by this Association.

OFFICERS OF THE ASSOCIATION FOR 1912-1913.

President: H. D. MILES,
Buffalo Foundry and Machine Company, Buffalo, N. Y.

Senior Vice-President: ALFRED E. HOWELL,
Phillips & Buttorff Manufacturing Company, Nashville, Tenn.

Vice-President: F. B. FARNSWORTH,
McLagon Foundry Company, New Haven, Conn.

Vice-President: T. L. RICHMOND,
Buffalo Scale Company, Buffalo, N. Y.

Vice-President: WALTER WOOD,
R. D. Wood & Co., Philadelphia, Pa.

Vice-President: R. A. BULL,
Commonwealth Steel Company, Granite City, Ill.

Vice-President: T. W. SHERIFF,
Sheriff Manufacturing Company, Milwaukee, Wis.

Vice-President: G. R. LOMBARD,
Lombard Iron Works and Supply Company, Augusta, Ga.

Vice-President: S. B. CHADSEY,
Massey-Harris Company, Limited, Toronto, Ont.

Secretary-Treasurer: DR. RICHARD MOLDENKE,
Watchung, N. J.

HONORARY MEMBERS.

ELECTED.

1910. ANTHES, L. L. Anthes Foundry, Limited, Winnipeg, Manitoba.
1905. BROWN, WILLIS. 534 Main Street, Buffalo, N. Y.
1909. FLAGG, STANLEY G., JR. Stanley G. Flagg & Co., Philadelphia, Pa.
1902. JONES, W. A. W. A. Jones Foundry and Machine Company, Chicago, Ill.
1908. McFADDEN, W. H. Ponca City, Okla.
1907. MOLDENKE, DR. RICHARD. Watchung, N. J.
1901. SEAMAN, J. S. Seaman-Sleeth Company, Pittsburgh, Pa.
1912. SPEER, MAJ. JOS. T. Pittsburgh Valve, Foundry and Construction Company, Pittsburgh, Pa.
1901. TURNER, PROF. THOMAS. The University, Birmingham, England.
1904. WALKER, A. W. Walker & Pratt Manufacturing Company, Boston, Mass.
1911. WATERFALL, ARTHUR T. Russel Wheel and Foundry Company, Detroit, Mich.
1907. WEST, THOS. D. The West Steel Casting Company, Cleveland, O.
1906. WOLFF, CHRIS. J. L. Wolff Manufacturing Company, Chicago, Ill.

MEMBERS.

- 1896. ABENDROTH BROTHERS. Port Chester, N. Y.
- 1907. ACME FOUNDRY COMPANY, THE. Cleveland, O.
- 1908. ACME STEEL AND MALLEABLE WORKS. Buffalo, N. Y.
- 1907. ADRIANCE, PLATT & Co. Poughkeepsie, N. Y.
- 1912. ADRIAN FURNACE COMPANY. Du Bois, Pa.
- 1896. AERMOTOR COMPANY. Twelfth and Rockwell Streets,
Chicago, Ill.
- 1913. ALABAMA COMPANY, THE. J. W. Porter, General Sales
Agent, Birmingham, Ala.
- 1909. ALAMO IRON WORKS. San Antonio, Tex.
- 1907. ALAND, CHARLES M. Coshocton, O.
- 1909. ALBERGER PUMP AND CONDENSER COMPANY. Newburgh,
N. Y.
- 1907. ALLAN, ANDREW, JR. 486 Greenwich Street, New York
City.
- 1908. ALLEN COMPANY, CHARLES G. Barre, Mass.
- 1912. ALLING, EDWARD B. Box 175, New Britain, Conn.
- 1908. AMERICAN BLOWER COMPANY. Detroit, Mich.
- 1907. AMERICAN CLAY MACHINERY COMPANY, THE. Wil-
loughby, O.
- 1909. AMERICAN ENGINEERING COMPANY. Aramingo Avenue
and Cumberland Street, Philadelphia, Pa.
- 1908. AMHERST FOUNDRY COMPANY, LIMITED. Amherst, N. S.
- 1900. AMERICAN AND BRITISH MANUFACTURING COMPANY.
Providence, R. I.
- 1912. AMERICAN BRAKE SHOE AND FOUNDRY COMPANY. Mah-
wah, N. J.
- 1912. AMERICAN CAR AND FOUNDRY COMPANY. Berwick, Pa.
- 1906. AMERICAN HARDWARE CORPORATION, THE. New Britain,
Conn.
- 1910. AMERICAN HOIST AND DERRICK COMPANY. St. Paul,
Minn.
- 1907. AMERICAN LAUNDRY MACHINERY COMPANY. Rochester,
N. Y.

1908. AMERICAN LUMBER AND MANUFACTURING COMPANY. Pittsburgh, Pa.
1907. AMERICAN SAW MILL MACHINERY COMPANY. Hackettstown, N. J.
1908. AMERICAN SEEDING MACHINE COMPANY. Springfield, O.
1906. AMERICAN STEEL FOUNDRIES. Commercial National Bank Building, Chicago, Ill.
1911. AMERICAN VANADIUM COMPANY. Frick Building, Pittsburgh, Pa.
1907. AMERICAN WOOD WORKING MACHINERY COMPANY. Rochester, N. Y.
1910. ANACONDA COPPER MINING COMPANY. Anaconda, Mont.
1904. ANTHES FOUNDRY, LIMITED. Toronto, Ont.
1904. ANTISELL, F. L., RARITAN COPPER WORKS. Perth Amboy, N. J.
1907. ARCADE MANUFACTURING COMPANY. Freeport, Ill.
1912. ATLANTIC FOUNDRY COMPANY, THE. Akron, O.
1912. ATLANTIC RADIATOR COMPANY. 925 Chestnut Street, Philadelphia, Pa.
1907. BACKERT, A. O., PENTON PUBLISHING COMPANY. Cleveland, O.
1908. BAIRD & WEST. Detroit, Mich.
1896. BARBOUR-STOCKWELL COMPANY. Cambridgeport, Mass.
1912. BARLOW FOUNDRY COMPANY. Newark, N. J.
1907. BARNETT, OSCAR, FOUNDRY COMPANY. Newark, N. J.
1908. BARSTOW STOVE COMPANY. Providence, R. I.
1908. BARTLEY, JONATHAN, CRUCIBLE COMPANY. Trenton, N. J.
1910. BASS FOUNDRY AND MACHINE COMPANY, THE. Fort Wayne, Ind.
1908. BARNUM, S. H. New Haven, Conn.
1909. BAY VIEW FOUNDRY COMPANY, THE. Sandusky, O.
1896. BECKETT, JAMES A. Hoosick Falls, N. Y.
1900. BECKWITH, P. D., ESTATE OF. Dowagiac, Mich.
1907. BELLE CITY MALLEABLE IRON COMPANY. Racine, Wis.
1907. BELL COMPANY, THE C. S. Hillsboro, O.
1908. BELLEVILLE STOVE AND RANGE COMPANY. Belleville, Ill.
1913. BENTON HARBOR MALLEABLE FOUNDRY COMPANY. Benton Harbor, Mich.

- 1907. BERKSHIRE MANUFACTURING COMPANY. Cleveland, O.
- 1911. BERKSHIRE PATTERN COMPANY. Pittsfield, Mass.
- 1908. BERLIN MACHINE WORKS. Beloit, Wis.
- 1908. BERTRAM & SONS Co., LIMITED, THE JOHN. Dundas, Ont.
- 1911. BESSEMER COKE COMPANY. Pittsburgh, Pa.
- 1896. BEST, T. J., WARDEN, KING, LIMITED. Montreal, P. Q.
- 1897. BETHLEHEM FOUNDRY AND MACHINE COMPANY. South Bethlehem, Pa.
- 1905 BETHLEHEM STEEL COMPANY. South Bethlehem, Pa.
- 1909. BETTENDORF, J. W. President, Bettendorf Axle Company. Bettendorf, Ia.
- 1896. BIRMINGHAM IRON FOUNDRY. Derby, Conn.
- 1912. BIRMINGHAM MACHINE AND FOUNDRY COMPANY. Birmingham, Ala.
- 1909. BIRKENSTEIN & SONS, S. 344 West Ontario Street, Chicago, Ill.
- 1911. BLAIRSVILLE ENAMELED WARE COMPANY. Blairsville, Pa.
- 1907. BLUNDELL, FRED. Box 128, P. O. Station "B," Cleveland, O.
- 1903. BOOTH, GARRETT & BLAIR. 406 Locust Street, Philadelphia, Pa.
- 1908. BOWMANVILLE FOUNDRY COMPANY, LIMITED, THE. Bowmanville, Ont.
- 1908. BRACKEN, H. W. Hopedale, Mass.
- 1901. BRADDOCK MACHINERY AND MANUFACTURING COMPANY. Braddock, Pa.
- 1908. BRADLEY MANUFACTURING COMPANY WORKS, DAVID. Bradley, Ill.
- 1907. BRAKES, JAMES. Lyon Mountain, N. Y.
- 1910. BRASSEUR, JULES. 356 Avenue Louise, Brussels, Belgium.
- 1907. BRAUCHER, PETER S. P. & R. Locomotive Shops, Reading, Pa.
- 1913. BRAUN & SONS, JOHN. 1615 North Twenty-third Street, Philadelphia, Pa.
- 1912. BRIDGE & BEACH MANUFACTURING COMPANY. 503 South First Street, St. Louis, Mo.
- 1913. BRILLION IRON WORKS. Brillion, Wis.

- 1896. BROADWAY IRON FOUNDRY. Cambridgeport, Mass.
- 1907. BROMLEY, F. L. President, American Motor Castings Company, Detroit, Mich.
- 1912. BROWN, I. G. 426 Broadway, Waukesha, Wis.
- 1906. BROWN & Co., E. E. McKean and Meadow Streets, Philadelphia, Pa.
- 1896. BROWN & SHARPE MANUFACTURING COMPANY. Providence, R. I.
- 1910. BUCHANAN, JUDSON. Chattanooga Plow Company, Chattanooga, Tenn.
- 1912. BUCHANAN ELECTRIC STEEL COMPANY. Buchanan, Mich.
- 1907. BUCHANAN FOUNDRY COMPANY, THE. Lebanon, Pa.
- 1907. BUCH'S SONS, A. Elizabethtown, Pa.
- 1907. BUCKEYE ENGINE COMPANY. Salem, O.
- 1907. BUCKEYE FOUNDRY COMPANY, THE. Buck Street, Cincinnati, O.
- 1911. BUCKEYE STEEL CASTING COMPANY, THE. Columbus, O.
- 1912. BUCKS STOVE AND RANGE COMPANY. 3500 North Second Street, St. Louis, Mo.
- 1913. BUCKWALTER STOVE COMPANY. Royersford, Pa.
- 1907. BUCYRUS COMPANY, THE. South Milwaukee, Wis.
- 1909. BUCYRUS STEEL CASTING COMPANY, THE. Bucyrus, O.
- 1911. BUFFALO FORGE COMPANY. Buffalo, N. Y.
- 1905. BUFFALO FOUNDRY AND MACHINE COMPANY. Buffalo, N. Y.
- 1912. BUFFALO SCALE COMPANY. Buffalo, N. Y.
- 1907. BULL, R. A. Commonwealth Steel Company, Granite City, Ill.
- 1898. BURR & HOUSTON Co., THE. 84 Calyer Street, Brooklyn, N. Y.
- 1906. CAHILL IRON WORKS, THE. Chattanooga, Tenn.
- 1909. CALDWELL & SON Co., H. W. Seventeenth Street and Western Avenue, Chicago, Ill.
- 1910. CAMP & SONS COMPANY, INCORPORATED, E. N. Moreland, Ga.
- 1912. CANADA MACHINERY COMPANY, LIMITED. Galt, Ont.
- 1907. CANADIAN LOCOMOTIVE COMPANY. Kingston, Ont.
- 1912. CANADIAN RUMELY COMPANY, LIMITED, THE. 48 Abelle Street, Toronto, Ont.

- 1911. CANADIAN STEEL FOUNDRIES, LIMITED. Montreal, P. Q.
- 1913. CARBON STEEL CASTING COMPANY. Lancaster, Pa.
- 1900. CARONDELET FOUNDRY COMPANY. 2123 South Kings-highway, St. Louis, Mo.
- 1904. CARR & Co., STEWART R. Baltimore, Md.
- 1908. CASE PLOW WORKS, J. I.. Racine, Wis.
- 1908. CENTRAL FOUNDRY COMPANY. 90 West Street, New York City.
- 1909. CENTRAL IRON WORKS. Quincy, Ill.
- 1910. CENTRAL RADIATOR COMPANY. Lansdale, Pa.
- 1901. CHAIN BELT COMPANY. Milwaukee, Wis.
- 1908. CHAPMAN'S SONS COMPANY, T. M. Old Town, Me.
- 1911. CHAPMAN VALVE MANUFACTURING COMPANY. Indian Orchard, Mass.
- 1911. CHATTANOOGA ROOFING AND FOUNDRY COMPANY. Chattanooga, Tenn.
- 1907. CHENEY & SON, S. Manlius, N. Y.
- 1907. CHICAGO PNEUMATIC TOOL COMPANY. 277 Dearborn Street, Chicago, Ill.
- 1913. CHICAGO STEEL FOUNDRY COMPANY. Kedzie Avenue and Thirty-seventh Street, Chicago, Ill.
- 1908. CHISHOLM & MOORE MANUFACTURING COMPANY, THE. Cleveland, O.
- 1906. CITY FOUNDRY COMPANY, THE. Cleveland, O.
- 1908. CLARE BROTHERS & Co., LIMITED. Preston, Ont.
- 1908. CLARK BROTHERS COMPANY. Belmont, N. Y.
- 1912. CLARKSVILLE FOUNDRY AND MACHINE WORKS. Clarksville, Tenn.
- 1910. CLELAND, J. H. Meaford, Ont.
- 1900. CLINTON IRON AND STEEL COMPANY. Pittsburgh, Pa.
- 1913. CLOW & SONS, JAMES B. Coshocton, O.
- 1908. COCKSHUTT PLOW COMPANY, LIMITED. Brantford, Ont.
- 1896. COLORADO FUEL AND IRON COMPANY, THE. Pueblo, Col.
- 1897. COLORADO IRON WORKS COMPANY. Denver, Col.
- 1907. COLUMBUS IRON AND STEEL COMPANY, THE. Columbus, O.
- 1907. COLUMBUS IRON WORKS COMPANY. Columbus, Ga.
- 1912. COLUMBUS MACHINE AND TOOL COMPANY, THE. Columbus, O.
- 1911. COLUMBIA STEEL COMPANY. San Francisco, Cal.

- 1896. COLVIN FOUNDRY COMPANY. Providence, R. I.
- 1912. COMMONWEALTH STEEL COMPANY. St. Louis, Mo.
- 1912. COMPANIE DESJARDINS, LA. St. André de Kamouraska,
P. Q.
- 1906. CONNERSVILLE BLOWER COMPANY, THE. Connerville,
Ind.
- 1912. COOPER BROTHERS. Cortlandt, N. J.
- 1896. CO-OPERATIVE FOUNDRY COMPANY. Rochester, N. Y.
- 1897. COX STOVE COMPANY, ABRAM. American and Dauphin
Streets, Philadelphia, Pa.
- 1896. CRANE COMPANY. 1214 South Canal Street, Chicago, Ill.
- 1900. CRANE COMPANY, WILLIAM M. Gates and Garfield
Avenues, Jersey City, N. J.
- 1900. CRANE IRON WORKS. Catasauqua, Pa.
- 1911. CRANE VALVE COMPANY. Bridgeport, Conn.
- 1908. CROOK, ALFRED. Twenty-third Street and Washington
Avenue, Philadelphia, Pa.
- 1907. CROWELL & MURRAY. Perry Payne Building, Cleveland, O.
- 1908. CROZIER, J. J. Kennett Square, Pa.
- 1909. CUMBERLAND FOUNDRY AND MANUFACTURING COMPANY.
West Nashville, Tenn.
- 1908. CURTENIUS, D. R. Kalamazoo Stove Company, Kalamazoo,
Mich.
- 1908. CURTIS & CO. MANUFACTURING COMPANY. Wellston P. O.,
St. Louis, Mo.
- 1913. DAIN MANUFACTURING COMPANY, LIMITED. Welland,
Ont.
- 1900. DAMASCUS BRONZE COMPANY. South Avenue and Stur-
geon Street, Pittsburgh, Pa., N. S.
- 1907. DANVILLE FOUNDRY AND MACHINE COMPANY. Clarence
E. Haupt, Danville, Pa.
- 1912. DARBYSHIRE-HARVIE IRON AND MACHINE COMPANY.
El Paso, Tex.
- 1910. DAVENPORT & KEELER. New Britain, Conn.
- 1912. DAVENPORT MACHINE AND FOUNDRY COMPANY. Daven-
port, Ia.
- 1906. DAVIS, GEORGE C. 39 South Tenth Street, Philadelphia,
Pa.

- 1898. DAWES & MILER WORKS. New Brighton, Pa.
- 1907. DEBEVOISE-ANDERSON COMPANY. 95 Liberty Street,
New York City.
- 1910. DEERE & Co. Moline, Ill.
- 1908. DEMING COMPANY, THE. Salem, O.
- 1912. DEMPSTER MILL MANUFACTURING COMPANY. Beatrice,
Neb.
- 1912. DETROIT STEEL CASTING COMPANY. Detroit, Mich.
- 1906. DETROIT TESTING LABORATORY, THE. 674 Woodward
Avenue, Detroit, Mich.
- 1904. DEVLIN MANUFACTURING COMPANY, THOMAS. Lehigh
Avenue, Third and American Streets, Philadelphia, Pa.
- 1907. DEWEY BROTHERS. Goldsboro, N. C.
- 1912. DEXTER FOLDER COMPANY. Pearl River, N. Y.
- 1901. DILLER, H. E. General Electric Company, Erie, Pa.
- 1907. DINGS ELECTROMAGNETIC SEPARATOR COMPANY. 675
South Street, Milwaukee, Wis.
- 1898. DODGE MANUFACTURING COMPANY. Mishawaka, Ind.
- 1908. DODGE MANUFACTURING COMPANY. Toronto, Ont.
- 1907. DOUGLAS, W. & B. Middletown, Conn.
- 1909. DOVER FIRE BRICK COMPANY. Cuyahoga Building,
Cleveland, O.
- 1909. DOWLER, A. S. 723 Atlanta Avenue, Webster Groves,
Mo.
- 1906. DRUMMOND, E. M. Drummond Manufacturing Company,
Louisville, Ky.
- 1912. DRYSDALE, ALEXANDER T. Box 126, Sheffield, Ala.
- 1907. DUQUESNE STEEL FOUNDRY COMPANY. Arrott Building,
Pittsburgh, Pa.

- 1911. EAGLE CASTING COMPANY. Winchester, Ky.
- 1911. EASTERN FACING MILLS, THE. Williamsport, Pa.
- 1902. EATON, F. M. Union Trust Building, Cincinnati, O.
- 1911. ELECTRIC REDUCTION COMPANY, LIMITED, THE. Buck-
ingham, P. Q.
- 1906. ELMIRA FOUNDRY COMPANY. Elmira, N. Y.
- 1905. EMERSON, HARRINGTON. 30 Church Street, New York
City.

1908. EMERSON, SAMUEL D. I. 137 Corlies Avenue, Pelham, N. Y.
1908. EMERSON LABORATORY. 177 State Street, Springfield, Mass.
1912. EMPIRE FOUNDRY COMPANY. New Brunswick, N. J.
1904. ENGLAND, GEORGE. Edgar Thomson Foundries. Braddock, Pa.
1907. ENTERPRISE FOUNDRY COMPANY. Detroit, Mich.
1912. ENTERPRISE MANUFACTURING COMPANY. Columbiana, O.
1896. ENTERPRISE MANUFACTURING COMPANY OF PENNSYLVANIA, THE. Third and Dauphin Streets, Philadelphia, Pa.
1907. ENTERPRISE SAND COMPANY. Fulton Building, Pittsburgh, Pa.
1909. EPPING-CARPENTER COMPANY. Forty-first Street and A. V. Ry., Pittsburgh, Pa.
1912. ERIE ENGINE WORKS. Erie, Pa.
1900. ERIE FOUNDRY COMPANY. Erie, Pa.
1912. ERIE MALLEABLE IRON COMPANY. Erie, Pa.
1907. ESTATE STOVE COMPANY, THE. Hamilton, O.
1912. EVANS, B. F. 633 Washington Avenue, Dunkirk, N. Y.
1907. EYNON-EVANS MANUFACTURING COMPANY. Fifteenth and Clearfield Streets, Philadelphia, Pa.
1912. FAIRBANKS & Co., E. & T. St. Johnsbury, Vt.
1911. FAIRBANKS COMPANY, THE. Binghamton, N. Y.
1910. FAIRBANKS, MORSE & Co. Beloit, Wis.
1913. FAIRMONT MINING MACHINERY COMPANY. Fairmont, W. Va.
1901. FARREL FOUNDRY AND MACHINE COMPANY. Ansonia, Conn.
1910. FAVORITE STOVE AND RANGE COMPANY, THE. Piqua, O.
1909. FEDERAL FOUNDRY SUPPLY COMPANY. Cleveland, O.
1910. FELL, JOSEPH E. 36 Lake Street, Ogdensburg, N. Y.
1910. FERGUSON & LANGE FOUNDRY COMPANY. Claybourne Avenue and Willow Street, Chicago, Ill.
1912. FERRO MACHINE AND FOUNDRY COMPANY. Cleveland, O.
1899. FIELD, H. E. Mackintosh, Hemphill & Co., Pittsburgh, Pa.
1910. FINDLAY BROTHERS. Carlton Place, Ont.

- 1896. FLAGG & Co., STANLEY G. 1421 Chestnut Street, Philadelphia, Pa.
- 1908. FLEMING, JAMES. St. John, N. B.
- 1908. FLEURY'S SONS, J. Aurora, Ont.
- 1913. FLORENCE IRON WORKS. Florence, N. J.
- 1901. FORAN FOUNDRY AND MANUFACTURING COMPANY. Flemington, N. J.
- 1906. FORT PITT MALLEABLE IRON COMPANY. McKees Rocks, Pa.
- 1909. FORT PITT STEEL CASTING COMPANY. McKeesport, Pa.
- 1912. FOUNDRY AND MACHINE EXHIBITION COMPANY, THE. Lewis Institute, Chicago, Ill.
- 1908. FOX'S SONS, BENJAMIN. 513 West Thirty-fourth Street, New York City.
- 1910. FRANCIS, FRANK. Chester Steel Casting Company, Chester, Pa.
- 1911. FREESE & Co., A. M. Galion, O.
- 1900. FRENCH & HECHT. Davenport, Ia.
- 1900. FRENCH & HECHT. Springfield, O.
- 1898. FRICK COMPANY. Waynesboro, Pa.
- 1901. FROHMAN, ED. D. The S. Obermayer Company, Pittsburgh, Pa.
- 1912. FROST & WOOD Co., LIMITED, THE. Smith's Falls, Ont.
- 1904. FULLER, BENJAMIN D. Westinghouse Electric and Manufacturing Company, Cleveland, O.
- 1907. FULLER & WARREN Co. Troy, N. Y.
- 1906. FULTON FOUNDRY AND MACHINE COMPANY. 24 Furman Street, Brooklyn, N. Y.

- 1907. GAIBLE, JULIAN. The Brownell Company, Dayton, O.
- 1909. GAINESVILLE IRON WORKS. Gainesville, Ga.
- 1910. GALION IRON WORKS COMPANY, THE. Galion, O.
- 1907. GALT MALLEABLE IRON COMPANY, LIMITED, MESSRS. Galt, Ont.
- 1913. GALT STOVE AND FURNACE COMPANY, THE, LIMITED. Galt, Ont.
- 1896. GARDEN CITY SAND COMPANY, THE. Chamber of Commerce Building, Chicago, Ill.
- 1908. GARDNER PRINTING COMPANY, THE. Cleveland, O.

1904. GARRISON FOUNDRY COMPANY, A. Ninth Street, S. S., Pittsburgh, Pa.
1897. GENERAL ELECTRIC COMPANY. West Lynn, Mass.
1906. GENERAL ELECTRIC COMPANY. Schenectady, N. Y.
1912. GENERAL ELECTRIC COMPANY. Pittsfield, Mass.
1896. GENERAL FIRE EXTINGUISHER COMPANY. Providence, R. I.
1896. GIBBY FOUNDRY COMPANY. East Boston, Mass.
1908. GIBNEY, JAMES W. 416 Woodward Avenue, Buffalo, N. Y.
1908. GILBERT, GEORGE McA. Carthage, N. Y.
1910. GILBERT, L. D. King Street, Waynesboro, Pa.
1903. GILSON MANUFACTURING COMPANY. Port Washington, Wis.
1909. GIRARD IRON COMPANY, THE. Girard, O.
1907. GIRARD IRON WORKS. Twenty-second and Master Streets, Philadelphia, Pa.
1912. GLASGOW, W. R. Traders Bank Building, Toronto, Ont.
1911. GLASS, JAMES. Wheeling Mold and Foundry Company, Wheeling, W. Va.
1907. GLEASON WORKS. Rochester, N. Y.
1913. GLOBE FOUNDRY AND MACHINE COMPANY. Globe, Ariz.
1908. GOLDIE & McCULLOUGH COMPANY, THE. Galt, Ont.
1898. GOLDEN'S FOUNDRY AND MACHINE COMPANY. Columbus, Ga.
1904. GOLDSCHMIDT THERMIT COMPANY, THE. 90 West Street, New York City.
1912. GOODISON THRESHER COMPANY, LIMITED, THE JOHN. Sarnia, Ont.
1907. GOODNOW FOUNDRY COMPANY, L. H. Fitchburg, Mass.
1898. GOULDS MANUFACTURING COMPANY, THE. Seneca Falls, N. Y.
1907. GRACETON COKE COMPANY. Graceton, Pa.
1910. GRAHAM MANUFACTURING COMPANY, JAMES. San Francisco, Cal.
1906. GRAY & DUDLEY HARDWARE COMPANY. Nashville, Tenn.
1913. GRAY IRON FOUNDRY COMPANY. Reading, Pa.
1896. GREEN FUEL ECONOMIZER COMPANY, THE. Matteawan, N. Y.

- 1911. GREENLEE FOUNDRY COMPANY. 662 West Twelfth Street
Chicago, Ill.
- 1912. GREEN'S CAR WHEEL MANUFACTURING COMPANY. 3018
North Broadway, St. Louis, Mo.
- 1905. GRIFFIN WHEEL COMPANY. Sacramento Square, Chicago,
Ill.
- 1911. GROTE MANUFACTURING COMPANY, THE. Evansville, Ind.
- 1901. HADFIELD, SIR ROBERT. 22 Carleton House Terrace,
London, England.
- 1910. HALL, J. W. Apartado 198, San Luis Potosi, Mexico.
- 1908. HALL, FRANK E. American Radiator Company, Buffalo,
N. Y.
- 1908. HAMILTON, H. V. The Steel Company of Canada, Hamil-
ton, Ont.
- 1909. HANNA & Co., M. A. Oliver Building, Pittsburgh, Pa.
- 1904. HARBISON-WALKER REFRACTORIES COMPANY. Pittsburgh,
Pa.
- 1910. HARRISBURG FOUNDRY AND MACHINE COMPANY. Harris-
burg, Pa.
- 1907. HARRISON SAFETY BOILER WORKS. Seventeenth Street
and Allegheny Avenue, Philadelphia, Pa.
- 1906. HARTFORD LABORATORY, THE. Hartford, Conn.
- 1908. HAUCK MANUFACTURING COMPANY. Richards Street and
Hamilton Avenue, Brooklyn, N. Y.
- 1910. HAVEN MALLEABLE CASTINGS COMPANY, THE. Cincin-
nati, O.
- 1907. HAWLEY DOWN DRAFT FURNACE COMPANY, THE. Easton,
Pa.
- 1908. HEATH FOUNDRY AND MANUFACTURING COMPANY, THE.
Plymouth, O.
- 1910. HEDGES LINCOLN IRON WORKS. Lincoln, Neb.
- 1911. HELMICK FOUNDRY-MACHINE COMPANY. Fairmont, W. Va.
- 1908. HENNESSY FOUNDRY COMPANY, THE. Springfield, O.
- 1913. HERMANC MACHINE COMPANY. Williamsport, Pa.
- 1907. HERRMAN PNEUMATIC MOLDING MACHINE COMPANY.
Zelienople, Pa.
- 1908. HERSEY COMPANY, LIMITED, MILTON. 171 St. James
Street, Montreal, P. Q.

1897. HILL & GRIFFITH COMPANY, THE. Cincinnati, O.
1907. HILLIS & JONES COMPANY. Foundry Department, Wilmington, Del.
1908. HILLIS & SONS, LIMITED. Halifax, N. S.
1903. HILLMAN & SON, J. H. Frick Building, Pittsburgh, Pa.
1912. HOPSON & CHAPIN MANUFACTURING COMPANY, THE. New London, Conn.
1906. HUNT COMPANY, C. W. West New Brighton, Staten Island, N. Y.
1907. HUNTER MACHINE COMPANY, JAMES. North Adams, Mass.
1910. HUNT-SPILLER MANUFACTURING COMPANY. South Boston, Mass.
1912. IDAHO NATIONAL HARVESTER COMPANY. Moscow, Idaho.
1912. IDEAL MANUFACTURING COMPANY, THE. Detroit, Mich.
1906. ILLINOIS MALLEABLE IRON COMPANY. 1801 Diversey Boulevard, Chicago, Ill.
1912. INDEPENDENT FOUNDRY COMPANY. Portland, Ore.
1910. INDUSTRIAL WORKS. Bay City, Mich.
1910. INTERNATIONAL CORRESPONDENCE SCHOOLS. Scranton, Pa.
1906. INTERNATIONAL HEATER COMPANY. Utica, N. Y.
1913. INTERSTATE CAR COMPANY. Indianapolis, Ind.
1905. INTERSTATE FOUNDRY COMPANY, THE. Cleveland, O.
1905. INTERSTATE SAND COMPANY. Zanesville, O.
1910. IOWA MALLEABLE IRON COMPANY. Fairfield, Ia.
1899. *Iron Age, The*. 239 West Thirty-ninth Street, New York City.
1908. IRON CITY SANITARY MANUFACTURING COMPANY. 18 Wood Street, Pittsburgh, Pa.
1912. JACKSON COMPANY, WM. H. 229 West Twenty-eighth Street, New York City.
1912. JAMIESON, MAJ. CHARLES C. Walter A. Wood M. & R. Co., Hoosick Falls, N. Y.
1907. JAMIESON COAL AND COKE COMPANY. Oliver Building, Pittsburgh, Pa.
1909. JANESVILLE MACHINE COMPANY, THE. Janesville, Wis.

1896. JARECKI MANUFACTURING COMPANY. Erie, Pa.
1908. JILES COMPANY, THE JAMES. Thirty-eighth Street and Liberty Avenue, Pittsburgh, Pa.
1907. JOHNSON, EDWARD A. Wentworth Institute, Boston, Mass.
1912. JOHNSTON HARVESTER COMPANY, THE. Batavia, N. Y.
1897. JONES FOUNDRY AND MACHINE COMPANY, W. A. North Avenue and Noble Street, Chicago, Ill.
1912. JONES HOLLOW WARE COMPANY. Baltimore, Md.
1905. JOSEPH, E. E. Washington, corner Perry Street, Buffalo, N. Y.
1904. JUSTICE, D. G. P. 43 Division Street, Crafton, Pa.
1913. KATZMANN, JAMES S. 257 Main Street, Everett, Mass.
1912. KELLER MANUFACTURING COMPANY. Minneapolis, Minn.
1898. KELLEY & Co., T. P. 544 West Twenty-second Street, New York City.
1900. KELLEY FOUNDRY AND MACHINE COMPANY. Goshen, Ind.
1909. KELLOGG COMPANY, THE M. W. 117 West Side Avenue, Jersey City, N. J.
1911. KENNEDY, ROBERT. University of Illinois, Champaign, Ill.
1908. KENNEDY & SONS COMPANY, LIMITED, THE WM. Owens Sound, Ont.
1906. KENNEDY'S FOUNDRY AND BALTIMORE MALLEABLE IRON AND STEEL CASTING COMPANY, P. Charles and Wells Streets, Baltimore, Md.
1908. KERR, H. O. Kerr Engine Company, Limited, Walkerville, Ont.
1906. KEWANEE BOILER COMPANY. Kewanee, Ill.
1912. KILPATRICK & SONS FOUNDRY COMPANY, ALEXANDER. 1615 North Twelfth Street, St. Louis, Mo.
1913. KINNAR MANUFACTURING COMPANY, THE. Columbus, O.
1909. KIRK, CHARLES L. 6050 Jenkins Arcade, Pittsburgh, Pa.
1910. KIRK, DR. EDWARD. 938 North Tenth Street, Philadelphia, Pa.
1896. KITTANNING IRON AND STEEL MANUFACTURING COMPANY. Kittanning, Pa.
1907. KLAUS, W. G. Best Manufacturing Company, Pittsburgh, Pa.

- 1907. KNICKERBACKER, JOHN. Waterford, N. Y.
- 1911. KNOEPPPEL, C. E. 761 West Delavan Avenue, Buffalo, N. Y.
- 1908. KNOWLTON, C. F. Westinghouse Electric and Manufacturing Company, Pittsburgh, Pa., N. S.
- 1903. KOHLER SONS COMPANY, J. M. Sheboygan, Wis.
- 1906. KREUZPOINTNER, P. 1400 Third Avenue, Altoona, Pa.
- 1908. KROESCHELL BROTHERS COMPANY. 55 Erie Street, Chicago, Ill.

- 1911. LACK MALLEABLE IRON COMPANY. Paducah, Ky.
- 1907. LACONIA CAR COMPANY WORKS, THE. Laconia, N. H.
- 1907. LA CROSSE PLOW COMPANY. La Crosse, Wis.
- 1906. LACY COMPANY, JAMES C. 1401 Block Street, Baltimore, Md.
- 1912. LAKE SHORE ENGINE WORKS. Marquette, Mich.
- 1908. LAMB KNITTING MACHINE COMPANY. Chicopee Falls, Mass.
- 1907. LANDERS, FRARY & CLARK. New Britain, Conn.
- 1900. LANE, H. M. 18 Piquette Avenue, East Detroit, Mich.
- 1896. LANE MANUFACTURING COMPANY. Montpelier, Vt.
- 1896. LAWRENCE STEEL CASTING COMPANY. Thirty-second Street and Railroad Avenue, Pittsburgh, Pa.
- 1910. LAWTON COMPANY, THE C. A. De Pere, Brown County, Wis.
- 1912. LENNOX FURNACE COMPANY, THE. Marshalltown, Ia.
- 1911. LENOIR CAR WORKS. Lenoir City, Tenn.
- 1900. LEWIS FOUNDRY AND MACHINE COMPANY. Pittsburgh, Pa.
- 1913. LIBERTY FOUNDRY COMPANY. 7600 Reilly Avenue, St. Louis, Mo.
- 1905. LIDGERWOOD MANUFACTURING COMPANY. 96 Liberty Street, New York City.
- 1912. LIMA LOCOMOTIVE CORPORATION. Lima, O.
- 1896. LINCOLN & Co., GEORGE H. South Boston, Mass.
- 1900. LINDEMANN & HOVERSON COMPANY, A. J. Milwaukee, Wis.
- 1913. LINK BELT COMPANY. Thirty-ninth Street and Stewart Avenue, Chicago, Ill.

- 1908. LITTLE, INCORPORATED, ARTHUR D. 93 Broad Street, Boston, Mass.
- 1910. LITTLE, J. W. 9 Penn Street, Waynesboro, Pa.
- 1896. LOBDELL CAR WHEEL COMPANY. Wilmington, Del.
- 1907. LOGAN, JOHN A. 303 Summit Street, Mt. Oliver Station, Pittsburgh, Pa.
- 1899. LOMBARD IRON WORKS AND SUPPLY COMPANY. Augusta, Ga.
- 1910. LORD & BURNHAM COMPANY. Irvington, N. Y.
- 1902. LOUDON, ARCHIE M. 455 Spaulding Street, Elmira, N. Y.

- 1907. MACKINNON BOILER AND MACHINE COMPANY. Bay City, Mich.
- 1912. MADCO FOUNDRY AND MACHINE COMPANY. Phoenixville, Pa.
- 1907. MADISON FOUNDRY COMPANY, THE. Cleveland, O.
- 1896. MAGEE FURNACE COMPANY. Chelsea, Mass.
- 1908. MAGILL, P. H. Bloomington, Ill.
- 1896. MAHER & FLOCKHART. 60 Polk Street, Newark, N. J.
- 1896. MALLEABLE IRON FITTINGS COMPANY. Branford, Conn.
- 1913. MALLEABLE IRON RANGE COMPANY. Beaver Dam, Wis.
- 1906. MANUFACTURERS FOUNDRY COMPANY, THE. Waterbury, Conn.
- 1913. MARION MALLEABLE IRON WORKS, THE. Marion, Ind.
- 1912. MARION STEAM SHOVEL COMPANY, THE. Marion, O.
- 1912. MARYLAND STEEL COMPANY. 1421 Chestnut Street, Philadelphia, Pa.
- 1905. MASON, O. M. Midland Steel Company, Pittsburgh, Pa.
- 1908. MASSEY-HARRIS COMPANY. Toronto, Ont.
- 1911. MATERNE MANUFACTURING COMPANY. Eighteenth and Gratiot Streets, St. Louis, Mo.
- 1907. MATTICE, A. M. R. F. D. No. 5, Lockport, N. Y.
- 1908. McCLARY MANUFACTURING COMPANY, THE. London, Ont.
- 1900. McCONE, ALEXANDER J. President, Nevada Engineering Works, Reno, Nev.
- 1912. McCONWAY & TORLEY COMPANY, THE. Forty-eighth Street and A. V. Ry., Pittsburgh, Pa.

1896. McCORMICK COMPANY, J. S. Twenty-eighth Street and Railroad Avenue, Pittsburgh, Pa.
1907. McCrum-Howell Company, The. 103 Park Avenue, New York City.
1908. McDougall Company, Limited, The R. Galt, Ont.
1912. McEwen, H. A. The Wali Iron Works, Limited, New Liskeard, Ont.
1912. McGee Iron and Brass Foundry Company, Joseph. 51 Sixth Street, Long Island City, N. Y.
1900. McKeeffrey & Co. Leetonia, O.
1898. McLagon Foundry Company, The. New Haven, Conn.
1911. McLain, David. Goldsmith Building, Milwaukee, Wis.
1909. McLain Company, The J. H. Canton, O.
1904. McLean, Edward. Pennsylvania Railroad, Altoona, Pa.
1907. McNab & Harlin Manufacturing Company. Paterson, N. J.
1911. Meadville Malleable Iron Company. Meadville, Pa.
1912. Medina Foundry Company, The. Medina, O.
1907. Meeker Foundry Company. 95 Clay Street, Newark, N. J.
1903. Mesta Machine Company. P. O. Box 1124, Pittsburgh, Pa.
1907. Metric Metal Works. Erie, Pa.
1910. Michigan Motor Castings Company. Flint, Mich.
1910. Michigan Steel Casting Company. 248 Guoin Street, Detroit, Mich.
1896. Michigan Stove Company. Detroit, Mich.
1908. Midland Engine Works Company. Midland, Ont.
1907. Milford Iron Foundry. Milford, Mass.
1907. Miller, C. M. The Superior Foundry Company, Cleveland, O.
1904. Miller's Products Company. Empire Building, Pittsburgh, Pa.
1911. Minneapolis Steel and Machinery Company. Minneapolis, Minn.
1912. Missouri Malleable Iron Company. East St. Louis, Mo.
1907. Modern Foundry Company, The. Cincinnati, O.
1907. Moffat, J. K. Moffat Stove Company, Weston, Ont.

- 1911. MOHR & SON, J. J. 210 Bullitt Building, Philadelphia, Pa.
- 1907. MOLDER, H. M. Best Foundry Company, Bedford, O.
- 1907. MOLINE PLOW COMPANY. Moline, Ill.
- 1905. MONESSEN FOUNDRY AND MACHINE COMPANY. Monessen, Pa.
- 1909. MONITOR STOVE AND RANGE COMPANY, THE. Cincinnati, O.
- 1906. MONTGOMERY, L. E. American Bridge Company, Ambridge, Pa.
- 1908. MOODY & SONS COMPANY, THE M. Terrebonne, P. Q.
- 1910. MOONEY, J. F. 1063 Harrison Avenue, Columbus, Ga.
- 1909. MOORE & SONS CORPORATION, SAMUEL L. Elizabeth, N. J.
- 1896. MOORE BROTHERS COMPANY. Joliet, Ill.
- 1907. MORAN, JAMES. 414 Arcade Building, Philadelphia, Pa.
- 1910. MORGAN ENGINEERING COMPANY. Alliance, O.
- 1912. MORRIS COMPANY, I. P. Philadelphia, Pa.
- 1907. MORRIS FOUNDRY COMPANY, THE JOHN B. Cincinnati, O.
- 1912. MORSE CHAIN COMPANY. Ithaca, N. Y.
- 1896. MOTT COMPANY, J. L. Trenton, N. J.
- 1904. MOUNT CARBON COMPANY, THE. Powellton, W. Va.
- 1907. MUELLER, PHILIP. Decatur, Ill.
- 1906. MULLEN, JOHN. Shamokin, Pa.
- 1906. MUMFORD MOLDING MACHINE COMPANY. 30 Church Street, New York City.
- 1910. MUNNOCH, P. Mahwah, N. J.
- 1908. MURPHY, M. F. American Locomotive Company, Schenectady, N. Y.
- 1907. MURPHY IRON WORKS. Detroit, Mich.
- 1911. MURRAY, ARTHUR F. Blake & Knowles Steam Pump Company, East Cambridge, Mass.
- 1912. MURRAY IRON WORKS. Burlington, Ia.
- 1901. NATIONAL CAR WHEEL COMPANY. Pittsburgh, Pa.
- 1909. NATIONAL CORE OIL COMPANY. Buffalo, N. Y.
- 1901. NATIONAL GEAR WHEEL COMPANY. South Avenue and Walker Street, Pittsburgh, Pa., N. S.
- 1909. NATIONAL ROLL AND FOUNDRY COMPANY, THE. Avonmore, Pa.

- 1912. NATIONAL SANITARY MANUFACTURING COMPANY, THE. Salem, O.
- 1910. NATIONAL SUPPLY COMPANY, THE. Station "B," Toledo, O.
- 1900. NATIONAL TUBE COMPANY. Kewanee Works, Kewanee, Ill.
- 1908. NELSON VALVE COMPANY. Chestnut Hill, Philadelphia, Pa.
- 1907. NEWBURY, J. H. Goshen, N. Y.
- 1907. NEWBURY MANUFACTURING COMPANY, THE. Monroe, N. Y.
- 1896. NEW ENGLAND BUTT COMPANY. Providence, R. I.
- 1911. NEW HAVEN SAND BLAST COMPANY. 47 Orange Street, New Haven, Conn.
- 1909. NEWPORT SAND BANK COMPANY. Newport, Ky.
- 1898. NEW YORK AIR BRAKE COMPANY, THE. Watertown, N. Y.
- 1906. NILES-BEMENT-POND COMPANY. Twenty-first and Callowhill Streets, Philadelphia, Pa.
- 1897. NILES TOOL WORKS COMPANY, THE. Hamilton, O.
- 1907. NORTH & JUDD MANUFACTURING COMPANY. New Britain, Conn.
- 1907. NORTHERN ENGINEERING WORKS. Detroit, Mich.
- 1912. NORTHERN MALLEABLE IRON COMPANY. St. Paul, Minn.
- 1911. NORTON COMPANY. Worcester, Mass.
- 1911. NOVELTY IRON COMPANY, THE. Canton, O.
- 1908. NOVO ENGINE COMPANY. Lansing, Mich.
- 1909. OBERHELMAN FOUNDRY COMPANY, J. A. Cincinnati, O.
- 1907. OBER MANUFACTURING COMPANY. Chagrin Falls, O.
- 1896. OBERMAYER COMPANY, THE S. Cincinnati, O.
- 1912. OHIO FOUNDRY COMPANY, THE. 2469 East Seventy-first Street, Cleveland, O.
- 1907. OHIO MALLEABLE IRON COMPANY, THE. Columbus, O.
- 1909. OIL WELL SUPPLY COMPANY. Oil City, Pa.
- 1905. OLIVER MACHINERY COMPANY. Grand Rapids, Mich.
- 1911. OLIVE STOVE WORKS. Rochester, Pa.
- 1910. ONTARIO MALLEABLE IRON COMPANY, LIMITED, THE. Oshawa, Ont.
- 1908. ONTARIO WIND ENGINE AND PUMP COMPANY. Toronto, Ont.

- 1912. ORBON STOVE AND RANGE COMPANY. Belleville, Ill.
- 1899. ORMROD, JOHN D. Emaus, Pa.
- 1907. OSBORN MANUFACTURING COMPANY, THE. Cleveland, O.
- 1911. OTIS STEEL COMPANY. Cleveland, O.

- 1913. PACIFIC FOUNDRY COMPANY. San Francisco, Cal.
- 1907. PALMERS & DE MOOY FOUNDRY COMPANY, THE. Cleveland, O.
- 1905. PANGBORN COMPANY, THOMAS W. Hagerstown, Md.
- 1909. PARKER BROTHERS COMPANY, LIMITED. Detroit, Mich.
- 1902. PARRY, WILLIAM H. 664 East Thirty-first Street, Brooklyn, N. Y.
- 1909. PATCH, INCORPORATED, A. H. Clarksville, Tenn.
- 1898. PATTIN BROTHERS COMPANY, THE. Marietta, O.
- 1912. PAWLING & HARNISHFEGER. Milwaukee, Wis.
- 1896. PAXSON COMPANY, J. W. Pier 45, Philadelphia, Pa.
- 1908. PEASE FOUNDRY COMPANY, LIMITED. 36 Queen Street, East, Toronto, Ont.
- 1913. PEERLESS FOUNDRY, THE. George F. Dana, Proprietor, Hamilton, O.
- 1912. PELTZ, H. L. 939 West Moulton Street, Bloomington, Ill.
- 1913. PENDLETON, J. C. 403 South Wright Street, Champaign, Ill.
- 1907. PENNSYLVANIA CASTING AND MACHINE COMPANY. Preble Avenue, Pittsburgh, Pa., N. S.
- 1896. PENTON, JOHN A. Penton Building, Cleveland, O.
- 1913. PERROTT, R. O. Secretary, The American Clay Machinery Company, Bucyrus, O.
- 1909. PETERSON COMPANY, T. J. Lees Building, Chicago, Ill.
- 1909. PHILADELPHIA CHAPLET AND MANUFACTURING COMPANY. Wissahickon, Philadelphia, Pa.
- 1912. PHILADELPHIA SASH WEIGHT WORKS. Twenty-second Street and Glenwood Avenue, Philadelphia, Pa.
- 1909. PHILLIPS & BUTTORF MANUFACTURING COMPANY. Nashville, Tenn.
- 1900. PHILLIPS & McLAREN COMPANY. Pittsburgh, Pa.
- 1909. PICKANDS, BROWN & Co. Chicago, Ill.
- 1896. PICKANDS, MATHER & Co. Cleveland, O.

- 1912. PIEDMONT FOUNDRY AND MACHINE COMPANY. Piedmont, W. Va.
- 1896. PILLING & CRANE. Girard Trust Building, Philadelphia, Pa.
- 1902. PITTSBURGH EMERY WHEEL COMPANY. Park Building, Pittsburgh, Pa.
- 1911. PITTSBURGH FOUNDRY AND MACHINE COMPANY. Pittsburgh, Pa.
- 1903. PORTER, DR. JOHN J. Box 664, Staunton, Va.
- 1909. PORTLAND STOVE FOUNDRY COMPANY. Portland, Me.
- 1896. POTTER PRINTING PRESS COMPANY. Plainfield, N. J.
- 1902. POUGHKEEPSIE FOUNDRY AND MACHINE COMPANY. Poughkeepsie, N. Y.
- 1907. PRATT & CADY COMPANY. Hartford, Conn.
- 1904. PRESSED STEEL CAR COMPANY. Pittsburgh, Pa.
- 1911. PRIMOS CHEMICAL COMPANY. Primos, Pa.
- 1906. PULASKI IRON COMPANY. Real Estate Trust Company, Philadelphia, Pa.

- 1906. RATHBONE, SARD & Co. Albany, N. Y.
- 1907. RAYMOND MANUFACTURING COMPANY OF GUELPH, LIMITED, THE. Guelph, Ont.
- 1912. READ MACHINERY COMPANY, INCORPORATED, THE. York, Pa.
- 1912. REED-PRENTICE COMPANY. Worcester, Mass.
- 1906. REEVES & Co., INCORPORATED. Columbus, Ind.
- 1908. REDINGTON, PATRICK. 79 Perry Street, Salem, O.
- 1912. REID GAS ENGINE COMPANY, JOSEPH. Oil City, Pa.
- 1906. REMINGTON TYPEWRITER COMPANY. Ilion, N. Y.
- 1913. RICHARDSON & BOYNTON COMPANY. Dover, N. J.
- 1909. RICHMOND FOUNDRY AND MANUFACTURING COMPANY. Richmond, Va.
- 1910. RIVERSIDE IRON WORKS. One Hundred and Sixth Street and Buffalo Avenue, Chicago, Ill.
- 1907. ROBBINS & MEYERS COMPANY, THE. Springfield, O.
- 1907. ROBESON PROCESS COMPANY. Au Sable Forks, N. Y.
- 1909. ROBINSON, LOUIS G. Harrison Building, Cincinnati, O.
- 1910. ROCK ISLAND PLOW COMPANY. Rock Island, Ill.

1907. ROCKWELL FURNACE COMPANY. 26 Cortlandt Street,
New York City.
1896. ROGERS, BROWN & Co. Cincinnati, O.
1912. RONCERAY, E. 9 Rue des Envierges, Paris, France.
1904. ROSEDALE FOUNDRY AND MACHINE COMPANY. Washing-
ton and Preble Avenues, Pittsburgh, Pa., N. S.
1898. ROSS-MEEHAN FOUNDRY COMPANY. Chattanooga, Tenn.
1907. ROSS-TACONY CRUCIBLE COMPANY. Tacony, Philadel-
phia, Pa.
1907. ROTHE, JOSEPH F. Green Bay Iron and Brass Foundry,
Green Bay, Wis.
1908. RUMELY COMPANY, M. La Porte, Ind.
1908. RUSSELL & Co., THE. Massillon, O.
1913. RYDER-ERICSSON ENGINE COMPANY. 20 Murray Street,
New York City.
1896. ST. PAUL FOUNDRY COMPANY. St. Paul, Minn.
1909. SAND MIXING MACHINE COMPANY. 220 Broadway, New
York City.
1907. SANDY HILL IRON AND BRASS WORKS. Hudson Falls,
N. Y.
1901. SARGENT & Co. New Haven, Conn.
1903. SAUNDERS & FRANKLIN. P. O. Box 226, Olneyville,
Providence, R. I.
1912. SAWYER-MASSEY COMPANY, LIMITED. Hamilton, Ont.
1906. SCHAUM & UHLINGER. Glenwood Avenue and Second
Street, Philadelphia, Pa.
1910. SCHREIBER, WILLIAM A. 626 June Street, Cincinnati, O.
1908. SCHWARTZ, HENRY A. 542 Tibbs Avenue, Indianapolis,
Ind.
1910. SEAGER ENGINE WORKS. Lansing, Mich.
1896. SEAMAN-SLEETH COMPANY. Arsenal Station, Pittsburgh,
Pa.
1906. SELLERS & Co., INCORPORATED, WILLIAM. 1600 Hamil-
ton Street, Philadelphia, Pa.
1911. SESSIONS FOUNDRY COMPANY. Bristol, Conn.
1909. SHECKLER, M. O. Union Switch and Signal Company,
Swissvale, Pa.

- 1896. SHEPPARD & CO., ISAAC A. Fourth Street and Montgomery Avenue, Philadelphia, Pa.
- 1900. SHERIFFS MANUFACTURING COMPANY. Milwaukee, Wis.
- 1907. SHERWIN, JOHN. President, Chicago Hardware Foundry Company, North Chicago, Ill.
- 1905. SILL STOVE WORKS. Rochester, N. Y.
- 1900. SIMMONS MANUFACTURING COMPANY, THE. Kenosha, Wis.
- 1913. SIMPSON HEATER COMPANY. Newark, O.
- 1899. SLY MANUFACTURING COMPANY, THE W. W. Cleveland, O.
- 1908. SMART MANUFACTURING COMPANY, THE JAMES. Brockville, Ont.
- 1912. SMEDLEY STEAM PUMP COMPANY. Dubuque, Ia.
- 1902. SMITH & ANTHONY COMPANY. 52 Union Street, Boston, Mass.
- 1907. SMITH & CAFFREY. Syracuse, N. Y.
- 1913. SMITH & SONS MANUFACTURING COMPANY, THE. Kansas City, Mo.
- 1908. SMITH COMPANY, THE H. B. Westfield, Mass.
- 1896. SMITH FOUNDRY SUPPLY COMPANY, THE J. D. Cleveland, O.
- 1911. SMITH MANUFACTURING COMPANY, THE A. P. East Orange, N. J.
- 1913. SMITH MANUFACTURING COMPANY, THE PHILIP. Sidney, O.
- 1897. SMITH'S FALLS MALLEABLE CASTINGS COMPANY, LIMITED. Smith's Falls, Ont.
- 1912. SNEAD & CO. IRON WORKS, INCORPORATED, THE. Jersey City, N. J.
- 1899. SOUTHER, HENRY. Hartford, Conn.
- 1896. SPRINGFIELD FACING COMPANY. Springfield, Mass.
- 1913. SPUCK IRON AND FOUNDRY COMPANY. St. Louis, Mo.
- 1910. STANDARD FOUNDRY COMPANY. 22 Chene Street, Detroit, Mich.
- 1906. STANDARD IDEAL COMPANY, LIMITED, THE. Port Hope, Ont.
- 1911. STANDARD LINSEED COMPANY. Cleveland, O.
- 1907. STANDARD MALLEABLE IRON COMPANY. Muskegon, Mich.
- 1912. STANLEY WORKS, THE. Bridgewater, Mass.
- 1911. STARKE'S DIXIE PLOW WORKS. Richmond, Va.

- 1902. STEAD, J. E. Queen's Terrace, Middlesbrough, England.
- 1911. STEEL & RADIATION, LIMITED. Toronto, Ont.
- 1912. STEEN, A. B. Manager, National Transit Shops, Oil City, Pa.
- 1902. STEINWAY & SONS. Riker Avenue, Steinway, L. I., N. Y.
- 1909. STIRLING WHEELBARROW COMPANY. Milwaukee, Wis.
- 1900. STERRIT-THOMAS FOUNDRY COMPANY. Thirty-second and Smallman Streets, Pittsburgh, Pa.
- 1908. STEWART, CHARLES E. President, The James Stewart Manufacturing Company, Limited, Woodstock, Ont.
- 1905. STILLMAN, PROF. THOMAS B. Stevens Institute of Technology, Hoboken, N. J.
- 1912. STINE COMPANY, THE J. C. Tyrone, Pa.
- 1909. STOUGHTON, BRADLEY. 29 West Thirty-ninth Street, New York City.
- 1906. STRAIGHT LINE ENGINE COMPANY, THE. Syracuse, N. Y.
- 1912. STUDEBACKER CORPORATION, THE. South Bend, Ind.
- 1899. STUPAKOFF, S. H. Mechanical Engineer, 545 Turret Street, Pittsburgh, Pa.
- 1896. STURTEVANT COMPANY, B. F. Hyde Park, Mass.
- 1908. STEVENS, FREDERICK B. Detroit, Mich.
- 1907. SULLIVAN MACHINERY COMPANY. Cleremont, N. H.
- 1909. SWEET & DOYLE FOUNDRY AND MACHINE COMPANY. Green Island, N. Y.
- 1908. SWETT IRON WORKS, A. L. Medina, N. Y.
- 1906. SYMINGTON COMPANY, THE T. H. Rochester, N. Y.
- 1896. SYRACUSE CHILLED PLOW COMPANY. Syracuse, N. Y.
- 1896. TABOR MANUFACTURING COMPANY, THE. 1740 Hamilton Street, Philadelphia, Pa.
- 1906. TARRANT FOUNDRY COMPANY. 369 West Indiana Street, Chicago, Ill.
- 1906. TAYLOR, ELLSWORTH M. 30 Broad Street, New York City.
- 1908. TAYLOR & Co. Morgan and Norman Avenues, Brooklyn, N. Y.
- 1907. TAYLOR & FENN COMPANY, THE. Hartford, Conn.
- 1908. TAYLOR COMPANY, W. P. 218 Ellicott Square, Buffalo, N. Y.

- 1907. TAYLOR-FORBES COMPANY, LIMITED. Guelph, Ont.
- 1911. TAYLOR IRON AND STEEL COMPANY. High Bridge, N. J.
- 1896. TAYLOR-WILSON MANUFACTURING COMPANY. McKees Rocks, Pa.
- 1898. TENNESSEE COAL, IRON AND RAILROAD COMPANY. Birmingham, Ala.
- 1912. THATCHER FURNACE COMPANY. 110 Beckman Street, New York City.
- 1912. THORNLEY, F. C. General Superintendent, Robbins Belt Conveying Company, Passaic, N. J.
- 1911. TILGHMAN-BROOKSBANKS SAND BLAST COMPANY. 1126 South Eleventh Street, Philadelphia, Pa.
- 1911. TITANIUM ALLOY MANUFACTURING COMPANY, THE. Niagara Falls, N. Y.
- 1907. TITTLE, C. L. Blairsville, Pa.
- 1907. TOD COMPANY, THE WILLIAM. Youngstown, O.
- 1912. TOLEDO STEEL CASTING COMPANY, THE. Toledo, O.
- 1912. TOLLAUD, JOHN J. Jenkins Brothers, Limited, 103 St. Remi Street, St. Henry, P. Q.
- 1911. TOPTON FOUNDRY AND MACHINE COMPANY. Topton, Pa.
- 1900. TOUCEDA, ENRIQUE. Albany, N. Y.
- 1910. TREADWELL ENGINEERING COMPANY. Easton, Pa.
- 1905. TRENTON MALLEABLE IRON COMPANY. Trenton, N. J.
- 1912. TROPENAS CONVERTER COMPANY. 50 Church Street, New York City.
- 1911. TROWBRIDGE, L. L. Reading Car Wheel Company, Reading, Pa.
- 1905. TURNER & SEYMOUR MANUFACTURING COMPANY. Torrington, Conn.
- 1901. UNION FOUNDRY AND MACHINE COMPANY. West Carson Street, S. S., Pittsburgh, Pa.
- 1909. UNION FOUNDRY COMPANY. Anniston, Ala.
- 1907. UNION MANUFACTURING COMPANY. New Britain, Conn.
- 1911. UNION SANITARY MANUFACTURING COMPANY. Noblesville, Ind.
- 1910. UNION STEAM PUMP COMPANY. Battle Creek, Mich.
- 1907. UNION STEEL CASTING COMPANY. Sixty-first Street and A. V. Ry., Pittsburgh, Pa.

- 1896. UNION STOVE WORKS, THE. Peekskill, N. Y.
- 1896. UNITED ENGINEERING AND FOUNDRY COMPANY. Pittsburgh, Pa.
- 1896. UNITED ENGINEERING AND FOUNDRY COMPANY. Lloyd Booth Department, Youngstown, O.
- 1907. UNITED IRON WORKS COMPANY. Springfield, Mo.
- 1909. UNITED STATES CAST IRON AND PIPE COMPANY. Bessemer, Ala.
- 1913. UNITED STATES CAST IRON PIPE AND FOUNDRY COMPANY. Burlington, N. J.
- 1906. UNITED STATES GRAPHITE COMPANY, THE. Saginaw, Mich.
- 1907. UNIVERSAL CASTER AND FOUNDRY COMPANY. 108 Adams Street, Newark, N. J.
- 1911. UNIVERSITY OF KANSAS. Lawrence, Kan.
- 1906. UTICA HEATER COMPANY. Utica, N. Y.

- 1907. VALENTINE, C. 137 Mullin Street, Watertown, N. Y.
- 1911. VALLEY IRON WORKS. Williamsport, Pa.
- 1908. VANCOUVER ENGINEERING WORKS, LIMITED. Vancouver, B. C.
- 1907. VANDERMAN MANUFACTURING COMPANY, THE. Willimantic, Conn.
- 1912. VAN WIE, E. G. Superintendent, Detroit Stove Works, Detroit, Mich.
- 1908. VERITY PLOW COMPANY, LIMITED. Brantford, Ont.
- 1912. VETTER, JOHN. 1080 Fifth Avenue, New York City.
- 1903. VIRGINIA IRON, COAL AND COKE COMPANY. Roanoke, Va.
- 1909. VULCAN IRON WORKS. Wilkes-Barre, Pa.
- 1907. VULCAN PLOW COMPANY. Evansville, Ind.

- 1896. WALKER & PRATT MANUFACTURING COMPANY. 31 Union Street, Boston, Mass.
- 1907. WALKER FOUNDRY COMPANY. Erie, Pa.
- 1907. WALWORTH MANUFACTURING COMPANY. 132 Federal Street, Boston, Mass.
- 1910. WARDEN, KING, LIMITED. Montreal, P. Q.
- 1912. WARREN COKE COMPANY, M. H. Levee and Rutger Streets, St. Louis, Mo.

- 1912. WARREN, JAMES. Treasurer, Wheeler Foundry Company, Worcester, Mass.
- 1913. WARREN STEEL CASTING COMPANY. 204 Liggett Building, St. Louis, Mo.
- 1900. WARWICK IRON AND STEEL COMPANY. Pottstown, Pa.
- 1896. WASHINGTON COAL AND COKE COMPANY. 7 Wood Street, Pittsburgh, Pa.
- 1912. WATERBURY CASTINGS COMPANY, THE. Waterbury, Conn.
- 1908. WATEROUS, C. H. Waterous Engine Works Company, Brantford, Ont.
- 1909. WATSON, C. H. Brass Foundry and Machine Company, Lenoir, Tenn.
- 1903. WATTS, GEORGE W. Works Manager, Canada Foundry Company, Toronto, Ont.
- 1911. WAYNE AGRICULTURAL WORKS. Goldsboro, N. C.
- 1909. WEBSTER MANUFACTURING COMPANY, THE. Tiffin, O.
- 1912. WEIR STOVE COMPANY. Taunton, Mass.
- 1907. WELSH, E. C. Northern and Western Railroad, Roanoke, Va.
- 1896. WESTERN FOUNDRY COMPANY, THE. 3634 Kedzie Avenue, Chicago, Ill.
- 1908. WESTERN FOUNDRY COMPANY, LIMITED, THE. Wingham, Ont.
- 1913. WESTERN GAS ENGINE CORPORATION. 900 North Main Street, Los Angeles, Cal.
- 1912. WESTERN STEEL AND IRON COMPANY, LIMITED, THE. Winnipeg, Manitoba.
- 1896. WESTINGHOUSE AIR BRAKE COMPANY. Pittsburgh, Pa.
- 1896. WESTINGHOUSE MACHINE COMPANY. East Pittsburgh, Pa.
- 1906. WESTMORELAND MALLEABLE IRON COMPANY, LIMITED. Westmoreland, N. Y.
- 1913. WESTOVER, JOHN, INCORPORATED. Lincoln, Neb.
- 1908. WEST SIDE FOUNDRY COMPANY. Troy, N. Y.
- 1908. WEST STEEL CASTING COMPANY, THE. 805 East Seventieth Street, Cleveland, O.
- 1911. WESTWICK & SON, JOHN. Claude Street, Galena, Ill.

- 1898. WHEELING MOLD AND FOUNDRY COMPANY. Wheeling,
W. Va.
- 1911. WHITE & SONS COMPANY, THE GEORGE. London, Ont.
- 1908. WHITE COMPANY, J. S. Pawtucket, R. I.
- 1912. WHITE DENTAL MANUFACTURING COMPANY, THE S. S.
Prince Bay, N. Y.
- 1896. WHITEHEAD BROTHERS COMPANY. 537 West Twenty-
seventh Street, New York City.
- 1911. WHITE'S IRON WORKS, FRED. J. 462 Maine Avenue,
S. W., Washington, D. C.
- 1910. WHITE WARNER COMPANY. Taunton, Mass.
- 1896. WHITING FOUNDRY EQUIPMENT COMPANY. Harvey, Ill.
- 1896. WHITIN MACHINE COMPANY. Whitinsville, Mass.
- 1902. WIEDEMANN, A. Gremsdorf, Liegnitz, Silesia, Germany.
- 1906. WILKINSON, S. 512 Franklin Avenue, Ellwood City, Pa.
- 1913. WILLARD, WILLIAM G. O'Fallon, Ill.
- 1911. WILMINGTON IRON WORKS. Wilmington, N. C.
- 1908. WILSON, JOSEPH J. 35 Chandler Avenue, Detroit, Mich.
- 1896. WITHERLY, FREDERICK B. Bunker Hill Iron Foundry,
Charlestown, Mass.
- 1897. WOLFF MANUFACTURING COMPANY, L. Hoyne and Carrol
Streets, Chicago, Ill.
- 1907. WONHAM, SANGER & BATES. 30 Church Street, New
York City.
- 1896. WOOD, WALTER. 400 Chestnut Street, Philadelphia, Pa.
- 1910. WOODRUFF & EDWARDS COMPANY. Elgin, Ill.
- 1911. WOODRUFF MACHINERY MANUFACTURING COMPANY. Win-
der, Ga.
- 1903. WOODWARD IRON COMPANY. Woodward, Ala.
- 1907. WORTMAN & WARD COMPANY, LIMITED, THE. London,
Ont.
- 1898. YALE & TOWNE MANUFACTURING COMPANY, THE. Stam-
ford, Conn.
- 1912. YORK MANUFACTURING COMPANY. York, Pa.
- 1912. ZIPPLER, FRANCIS J. Keystone Tuyelage Company, In-
corporated, Reading, Pa.

SUMMARY.

Elected to Membership.	No. of Members.
1896.....	60
1897.....	9
1898.....	13
1899.....	7
1900.....	23
1901.....	10
1902.....	10
1903.....	10
1904.....	15
1905.....	17
1906.....	42
1907.....	114
1908.....	85
1909.....	48
1910.....	49
1911.....	57
1912.....	96
1913 to date of publication.....	37
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	702
Honorary Members.....	13
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Total Membership, May, 1913.....	715

GEOGRAPHICAL DISTRIBUTION OF MEMBERSHIP.

UNITED STATES.

ALABAMA.

Anniston: Union Foundry Company.

Bessemer: U. S. Cast Iron and Pipe Company.

Birmingham: The Alabama Company; Birmingham Machine and Foundry Company; Tennessee Coal, Iron and Railroad Company.

Sheffield: Alex. T. Drysdale.

Woodward: Woodward Iron Company.

ARIZONA.

Globe: Globe Foundry and Machine Company.

CALIFORNIA.

Los Angeles: Western Gas Engine Corporation.

San Francisco: Columbia Steel Company; James Graham Manufacturing Company; Pacific Foundry Company.

COLORADO.

Denver: Colorado Iron Works Company.

Pueblo: The Colorado Fuel and Iron Company.

CONNECTICUT.

Ansonia: Farrel Foundry and Machine Company.

Branford: Malleable Iron Fittings Company.

Bridgeport: Crane Valve Company.

Bristol: Sessions Foundry Company.

Derby: Birmingham Iron Foundry.

Hartford: Hartford Laboratory; Pratt & Cady Company; Henry Souther; The Taylor & Fenn Company.

Middletown: W. & B. Douglas.

New Britain: Edward B. Alling; P. & F. Corbin; Davenport & Keeler; Landers, Frary & Clark; North & Judd Manufacturing Company; Russell & Erwin Manufacturing Company; Union Manufacturing Company.

New Haven: S. H. Barnum; The McLagon Foundry; The New Haven Sand Blast Company; Sargent & Co.

New London: The Hopson & Chapin Manufacturing Company.

Stamford: The Yale & Towne Manufacturing Company.

CONNECTICUT.—*Continued.*

Torrington: Turner & Seymour Manufacturing Company.

Waterbury: The Manufacturers Foundry Company; The Waterbury Castings Company.

Willimantic: The Vanderman Manufacturing Company.

DELAWARE.

Wilmington: Hillis & Jones Company; Lobdell Car Wheel Company.

DISTRICT OF COLUMBIA.

Washington: Frederick J. White's Iron Works.

GEORGIA.

Augusta: Lombard Iron Works and Supply Company.

Columbus: Columbus Iron Works Company; Golden's Foundry and Machine Company.

Gainesville: Gainesville Iron Works.

Moreland: E. N. Camp & Sons Company.

Winder: Woodruff Machine and Manufacturing Company.

IDAHO.

Moscow: Idaho National Harvester Company.

ILLINOIS.

Belleville: Belleville Stove and Range Company; Orbon Stove and Range Company.

Bloomington: P. H. MaGirl; H. L. Pelz.

Bradley: David Bradley Manufacturing Company.

Champaign: Robert Kennedy; J. C. Pendleton.

Chicago: Aermotor Company; American Steel Foundries; S. Birkenstein & Sons; H. W. Caldwell & Sons Co.; Chicago Pneumatic Tool Company; Chicago Steel Foundry Company; Crane Company; Ferguson & Lange Foundry Company; The Foundry and Machine Exhibition Company; The Garden City Sand Company; Greenlee Foundry Company; Griffin Wheel Company; Illinois Malleable Iron Company; W. A. Jones (Honorary Member); W. A. Jones Foundry and Machine Company; Kroeschell Brothers; Link Belt Company; T. J. Peterson Company; Pickands, Brown & Co.; Riverside Iron Works; John Sherwin (Chicago Hardware Foundry Company); Tarrant Foundry Company; The Western Foundry Company; Chris. J. Wolff (Honorary Member); L. Wolff Manufacturing Company.

Decatur: Philip Mueller.

East St. Louis: Missouri Malleable Iron Company.

Elgin: Woodruff & Edwards Company.

Freeport: Arcade Manufacturing Company.

Galena: John Westwick & Son.

Granite City: R. A. Bull.

ILLINOIS.—Continued.

Harvey: Whiting Foundry Equipment Company.
 Joliet: Moore Brothers Company.
 Kewanee: Kewanee Boiler Company; National Tube Company.
 Moline: Deere & Co.; Moline Plow Company.
 O'Fallon: William G. Willard.
 Quincy: Central Iron Works; Excelsior Stove and Manufacturing Company.
 Rock Island: Rock Island Plow Company.

INDIANA.

Columbus: Reeves & Co.
 Connersville: Connersville Blower Company.
 Evansville: The Grote Manufacturing Company; Vulcan Plow Company.
 Fort Wayne: The Bass Foundry and Machine Company.
 Goshen: Kelley Foundry and Machine Company.
 Indianapolis: Inter-State Car Company; Henry A. Schwartz.
 La Porte: M. Rumely Company.
 Marion: The Marion Malleable Iron Works.
 Mishawaka: Dodge Manufacturing Company.
 Noblesville: Union Sanitary Manufacturing Company.
 South Bend: The Studebaker Corporation.

IOWA.

Bettendorf: Bettendorf Axle Company.
 Burlington: Murray Iron Works Company.
 Davenport: Davenport Machine and Foundry Company; French and Hecht.
 Dubuque: Smedley Steam Pump Works.
 Fairfield: Iowa Malleable Iron Company.
 Marshalltown: The Lennox Furnace Company.

KANSAS.

Lawrence: University of Kansas.

KENTUCKY.

Louisville: E. M. Drummond.
 Newport: Newport Sand Bank Company.
 Paducah: Lack Malleable Iron Company.
 Winchester: Eagle Casting Company.

MAINE.

Portland: Portland Stove and Foundry Company.

MARYLAND.

Baltimore: Baltimore Malleable Iron and Steel Castings Company and P. Kennedy's Foundry; Stewart R. Carr & Co.; Jones Hollow Ware Company; James J. Lacy Company.

Hagerstown: Thos. W. Pangborn Company.

MASSACHUSETTS.

Barre: Chas. G. Allen Company.

Boston: Gibby Foundry Company; Hunt-Spiller Company; Prof. Edw. A. Johnson; Geo. H. Lincoln Company; Arthur D. Little, Incorporated; Smith & Anthony; A. W. Walker (Honorary Member); Walker & Pratt Manufacturing Company; Walworth Manufacturing Company.

Bridgewater: The Stanley Works.

Cambridgeport: Barbour & Stockwell Company; Broadway Iron Foundry.

Charlestown: Frederick B. Witherly.

Chelsea: Magee Furnace Company.

Chicopee Falls: Lamb Knitting Machine Company.

East Cambridge: Arthur F. Murray.

Everett: James S. Katzmänn.

Fitchburg: L. H. Goodnow Foundry Company.

Hopedale: H. W. Bracken.

Hyde Park: B. F. Sturtevant Company.

Indian Orchard: Chapman Valve Manufacturing Company.

Milford: Milford Iron Foundry.

North Adams: James Hunter Machine Company.

Pittsfield: Berkshire Pattern Company; General Electric Company.

Springfield: Emerson Laboratories; Springfield Facing Company.

Taunton: Weir Stove Company; White-Warner Company.

Westfield: H. B. Smith Company.

West Lynn: General Electric Company.

Whitinsville: Whittin Machine Company.

Worcester: Norton Company; Reed-Prentice Company; James Warren.

MICHIGAN.

Battle Creek: Union Steam Pump Company.

Bay City: Industrial Works; McKinnon Boiler and Machine Company.

Benton Harbor: Benton Harbor Malleable Foundry Company.

Buchanan: Buchanan Electric Steel Company.

Detroit: American Blower Company; F. L. Bromley; The Detroit Steel Casting Company; The Detroit Testing Laboratories; Enterprise Foundry Company; The Ideal Manufacturing Company; H. M. Lane; Michigan Steel Castings Company; Michigan Stove Company; Murphy Iron Works; Northern Engineering Works; Parker Brothers Company, Limited; Standard Foundry Company; Frederick B. Stevens; E. G. Van Wie; Arthur T. Waterfall (Honorary Member); Joseph J. Wilson.

MICHIGAN.—*Continued.*

Dowagiac: Estate of P. D. Beckwith.
Flint: Michigan Motor Castings Company.
Grand Rapids: Oliver Machinery Company.
Kalamazoo: D. R. Curtenius.
Lansing: Novo Engine Company; Scager Engine Works.
Marquette: Lake Shore Engine Works.
Muskegon: Standard Malleable Iron Company.
Saginaw: The U. S. Graphite Company.

MINNESOTA.

Minneapolis: Keller Manufacturing Company; Minneapolis Steel and Machinery Company.
St. Paul: American Hoist and Derrick Company; Northern Malleable Iron Company; St. Paul Foundry Company.

MISSOURI.

Kansas City: The Smith & Sons Manufacturing Company.
St. Louis: Bridge and Beach Manufacturing Company; Buck Stove and Range Company; Carondelet Foundry Company; Commonwealth Steel Company; Curtis & Co. Manufacturing Company; A. S. Dowler (Webster Groves); Green's Car Wheel Manufacturing Company; Alex. Kilpatrick & Sons Foundry Company; Liberty Foundry Company; Materne Manufacturing Company; Warren Steel Casting Company; M. H. Warren Coke Company; Spuck Iron and Foundry Company.
Springfield: United Iron Works Company.

MONTANA.

Anaconda: Anaconda Copper Mining Company.

NEBRASKA.

Beatrice: Dempster Mill Manufacturing Company.
Lincoln: John Westover, Incorporated.

NEVADA.

Reno: Nevada Engineering Works.

NEW HAMPSHIRE.

Claremont: Sullivan Machinery Company.
Laconia: The Laconia Car Company Works.

NEW JERSEY.

Burlington: U. S. Cast Iron Pipe and Foundry Company.
Dover: Richardson and Boynton Company.
East Orange: The A. P. Smith Manufacturing Company.

NEW JERSEY.—*Continued.*

- Elizabeth:** Samuel L. Moore & Sons Corporation.
Flemington: Foran Foundry and Manufacturing Company.
Florence: Florence Iron Works.
Hackettstown: American Saw Mill Machinery Company.
High Bridge: Taylor Iron and Steel Company.
Hoboken: Prof. Thos. B. Stillman.
Jersey City: Wm. M. Crane Company; The M. W. Kellogg Company;
 The Snead & Co. Iron Works, Incorporated.
Mahwah: American Brake Shoe and Foundry Company; P. Munnoch.
Newark: The Barlow Foundry Company; Oscar Barnett Foundry
 Company; Maher & Flockhart; Meeker Foundry Company; Universal
 Caster and Foundry Company.
New Brunswick: Empire Foundry Company.
Passaic: F. C. Thornley.
Paterson: McNab & Harlin Manufacturing Company.
Perth Amboy: F. L. Antisell.
Plainfield: Potter Printing Press Company.
Trenton: Jonathan Bartley Crucible Company; J. L. Mott Company;
 The Trenton Malleable Iron Company.
Watchung: Dr. Richard Moldenke (Honorary Member).

NEW YORK.

- Albany:** Rathbone, Sard & Co.; Enrique Touceda.
Auburn: McIntosh, Seymour & Co.
Au Sable Forks: Robeson Process Company.
Batavia: The Johnston Harvester Company.
Belmont: Clark Brothers.
Binghamton: The Fairbanks Company.
Brooklyn: The Burr & Houston Company; Fulton Foundry and Machine
 Company; Hauck Manufacturing Company; Wm. H. Parry; Taylor & Co.
Buffalo: Acme Steel and Malleable Iron Company; Willis Brown
 (Honorary Member); Buffalo Forge Company; Buffalo Foundry and
 Machine Company; Buffalo Scale Company; James W. Gibney; Frank E.
 Hall; E. E. Joseph; C. E. Knoeppel; National Core Oil Company; W. P.
 Taylor.
Carthage: W. McA. Gilbert.
Cortland: Cooper Brothers.
Dunkirk: B. F. Evans.
Elmira: Elmira Foundry Company; Archie M. Loudon.
Goshen: J. H. Newbury.
Green Island: Sweet & Doyle Foundry and Machine Company.
Hoosick Falls: James A. Beckett; Major Chas. C. Jamieson.
Hudson Falls: Sandy Hill Iron and Brass Works.
Ilion: Remington Typewriter Company.
Irvington: Lord & Burnham Company.

NEW YORK.—Continued.

Ithaca: Morse Chain Company.

Lockport: A. M. Mattice.

Long Island City: Jos. McGee Iron and Brass Foundry Company.

Lyon Mountain: James Brakes.

Manlius: S. Cheney & Son.

Matteawan: The Green Fuel Economizer Company.

Medina: A. L. Swett Iron Works.

Monroe: The Newbury Manufacturing Company.

Newburg: Alberger Pump and Condenser Company.

New York City: Andrew Allan, Jr.; Central Foundry Company; Debevoise-Anderson Company; Harrington Emerson; Benj. Fox's Sons; The Goldschmid Thermit Company; *The Iron Age*; Wm. H. Jackson Company; T. P. Kelley & Co.; Lidgerwood Manufacturing Company; The McCrum-Howell Company; Mumford Molding Machine Company; Rockwell Furnace Company; Ryder-Ericsson Engine Company; The Sand Mixing Machine Company; Steinway & Sons; Bradley Stoughton; Ellsworth M. Taylor; Thatcher Furnace Company; Tropenas Converter Company; John Vetter; Whitehead Brothers Company; Wonham, Sanger & Bates.

Niagara Falls: The Titanium Alloys Manufacturing Company.

Ogdensburg: Jos. E. Fell.

Pearl River: Dexter Folder Company.

Peekskill: The Union Stove Works.

Pelham: Samuel D. I. Emerson.

Port Chester: Abendroth Brothers.

Poughkeepsie: Adriance, Platt & Co.; Poughkeepsie Foundry and Machine Company.

Prince Bay: The S. S. White Dental Manufacturing Company.

Rochester: American Laundry Machinery Manufacturing Company; American Wood Working Machinery Company; Co-Operative Foundry Company; Gleason Works; Sill Stove Company; T. H. Symington Company.

Schenectady: General Electric Company; Martin F. Murphy.

Seneca Falls: The Goulds Manufacturing Company.

Syracuse: Smith & Caffrey Company; The Straight Line Engine Company; Syracuse Chilled Plow Company.

Troy: Fuller & Warren Company; West Side Foundry Company.

Utica: International Heater Company; Utica Heater Company.

Waterford: John Knickerbacker.

Watertown: The New York Air Brake Company; C. Valentine.

Westmoreland: Westmoreland Malleable Iron Company, Limited.

West New Brighton: C. W. Hunt Company.

NORTH CAROLINA.

Goldsboro: Dewey Brothers; Wayne Agricultural Works.

Wilmington: Wilmington Iron Works.

OHIO.

Akron: The Atlantic Foundry Company.

Alliance: Morgan Engineering Company.

Bedford: Best Foundry Company.

Bucyrus: Bucyrus Steel Casting Company; R. O. Perrott.

Canton: J. H. McLain Company; Novelty Iron Company.

Chagrin Falls: Ober Manufacturing Company.

Cincinnati: Buckeye Foundry Company; F. M. Eaton; The Haven Malleable Castings Company; The Hill & Griffiths Company; The Modern Foundry Company; The Monitor Stove and Range Company; The John B. Morris Foundry Company; The J. A. Oberhelman Foundry Company; The S. Obermayer Company; Louis G. Robinson; Rogers, Brown & Co.; Wm. A. Schreiber.

Cleveland: The Acme Foundry Company; A. O. Backert; The Berkshire Manufacturing Company; Fred. Blundell; The Chisholm & Moore Manufacturing Company; The City Foundry Company; Crowell & Murray; Dover Fire Brick Company; Federal Foundry Supply Company; Ferro Machine and Foundry Company; Benj. D. Fuller; The Gardner Printing Company; The Interstate Foundry Company; The Madison Foundry Company; C. M. Miller; The Ohio Foundry Company; The Osborn Manufacturing Company; Otis Steel Company; The Palmers & De Mooy Foundry Company; John A. Penton; Pickands, Mather & Co.; The W. W. Sly Manufacturing Company; J. D. Smith Foundry Supply Company; Standard Linseed Oil Company; Thos. D. West (Honorary Member); The West Steel Casting Company.

Columbiana: Enterprise Manufacturing Company.

Columbus: The Buckeye Steel Casting Company; The Columbus Iron and Steel Company; The Columbus Machine and Tool Company; The Kinnear Manufacturing Company; The Ohio Malleable Iron Company; J. F. Mooney.

Coshocton: Chas. M. Aland; James B. Clow & Sons.

Dayton: Julian Gaible.

Galion: A. M. Freese & Co.; The Galion Iron Works Company.

Girard: The Girard Iron Company.

Hamilton: The Estate Stove Company; The Niles Tool Works; The Peerless Foundry.

Hillsboro: The C. S. Bell Company.

Leetonia: McKeefrey & Co.

Lima: Lima Locomotive Company.

Marietta: The Pattin Brothers Company.

Marion: The Marion Steam Shovel Company.

Massillon: The Russell & Co.

Medina: The Medina Foundry Company.

Piqua: The Favorite Stove and Range Company.

Plymouth: The Heath Foundry and Manufacturing Company.

Salem: Buckeye Engine Company; The Deming Company; The National Sanitary Manufacturing Company; Patrick Redington.

OHIO.—Continued.

- Sandusky:** The Bay View Foundry Company.
Sidney: The Philip Smith Manufacturing Company.
Springfield: American Seeding Machine Company; French & Hecht;
 The Hennessy Foundry Company; The Robbins & Myers Company.
Tiffin: The Webster Manufacturing Company.
Toledo: The National Supply Company; The Toledo Steel Casting
 Company.
Willoughby: The American Clay Machinery Company.
Youngstown: The Wm. Tod Company; United Engineering and Foundry
 Company; The Youngstown Bronze and Iron Company.
Zanesville: Interstate Sand Company.

OKLAHOMA.

- Ponca City:** W. H. McFadden (Honorary Member).

OREGON.

- Portland:** Independent Foundry Company.

PENNSYLVANIA.

- Altoona:** Edward McLean; P. Kreuzpointner.
Ambridge: L. E. Montgomery.
Avonmore: The National Roll and Foundry Company.
Berwick: American Car and Foundry Company.
Blairsville: Blairsville Enameled Ware Company; L. C. Tittle.
Braddock: Braddock Machine and Foundry Company; Geo. England
 (Carnegie Steel Company).
Catasauqua: Crane Iron Works.
Chester: Frank Francis.
Danville: Danville Foundry and Machine Company.
Dubois: Adrian Furnace Company.
Easton: The Hawley Down Draft Furnace Company; Treadwell Engi-
 neering Company.
Elizabethtown: A. Buch's Sons.
Ellwood City: S. Wilkinson.
Emaus: John D. Ormrod.
Erie: H. E. Diller; Erie Engine Works; Erie Foundry Company; Erie
 Malleable Company; Jarecki Manufacturing Company; Metric Metal
 Works; Walker Foundry Company.
Graceton: Graceton Coke Company.
Harrisburg: Harrisburg Foundry and Machine Company.
Kennett Square: J. J. Crozier.
Kittanning: Kittanning Iron and Steel Manufacturing Company.
Lancaster: Carbon Steel Casting Company.
Lansdale: Central Radiator Company.
Lebanon: The Buchanan Foundry Company; Lebanon Steel Foundry.

PENNSYLVANIA.—*Continued.*

McKeesport: Fort Pitt Steel Castings Company.

McKees Rocks: Fort Pitt Malleable Iron Company; Taylor-Wilson Manufacturing Company.

Meadville: Meadville Malleable Iron Company.

Monessen: Monessen Foundry and Machine Company.

New Brighton: Dawes & Miller Works.

Oil City: Oil Well Supply Company; Jas. Reid Gas Engine Company; A. B. Steen.

Philadelphia: Atlantic Radiator Company; American Engineering Company; Booth, Garret & Blair; John Braun & Sons; E. E. Brown & Co.; Abram Cox Stove Company; Alfred Crook; Geo. C. Davis; Thos. Devlin Manufacturing Company; The Enterprise Manufacturing Company of Pennsylvania; Eynon-Evans Manufacturing Company; Stanley G. Flagg, Jr. (Honorary Member); Stanley G. Flagg & Co.; Girard Iron Works; Harrison Safety Boiler Works; Dr. Edward Kirk; Maryland Steel Company; J. J. Mohr & Son; James Moran; I. P. Morris Company; Nelson Valve Company; Niles-Bement-Pond Company; J. W. Paxson Company; Philadelphia Chaplet and Manufacturing Company; Philadelphia Sash Weight Works; Pilling & Crane; Pulaski Iron Company; Ross-Tacony Crucible Company; Schaum & Uhlinger, Incorporated; Wm. Sellers & Co., Incorporated; Isaac A. Sheppard & Co.; The Tabor Manufacturing Company; Tilghman-Brooksbanks Sand Blast Company; Walter Wood.

Phoenixville: Madeo Foundry and Machine Company.

Pittsburgh: American Lumber and Manufacturing Company; American Vanadium Company; Bessemer Coke Company; Clinton Iron and Steel Company; Damaseus Bronze Company; Duquesne Steel Foundry Company; Enterprise Sand Company; Epping-Carpenter Company; H. E. Field; Edw. D. Frohman; A. Garrison Foundry Company; M. A. Hanna & Co.; Harbison & Walker Refractories Company; J. H. Hillman & Son; Iron City Sanitary Manufacturing Company; Jamieson Coal and Coke Company; The James Jiles Company; D. G. P. Justice; Charles L. Kirk; W. G. Klaus; C. F. Knowlton; Lawrence Steel Casting Company; Lewis Foundry and Machine Company; John A. Logan; O. M. Mason; The McConway and Torley Company; J. S. McCormick Company; Mesta Machine Company; The Millers Products Company; National Car Wheel Company; National Gear Wheel Foundry; Pennsylvania Casting and Machine Company; Phillips & McLaren Company; Pittsburgh Emery Wheel Company; Pittsburgh Foundry and Machine Company; Pressed Steel Car Company; Rosedale Foundry and Machine Company; Jos. S. Seaman (Honorary Member); Seaman-Sleeth Company; Major Jos. T. Speer (Honorary Member); Sterrit-Thomas Foundry Company; S. H. Stupakoff; Union Foundry and Machine Company; Union Steel Casting Company; United Engineering and Foundry Company; Washington Coal and Coke Company; Westinghouse Air Brake Company; Westinghouse Machine Company.

Pottstown: Warwick Iron and Steel Company.

Primos: Primos Chemical Company.

PENNSYLVANIA.—Continued.

Reading: Peter Braucher; Gray Iron Foundry Company; L. L. Trowbridge; F. J. Zipser.

Rochester: Olive Stove Works.

Royersford: Buckwalter Stove Company.

Scranton: International Correspondence Schools.

Shamokin: John Mullen.

South Bethlehem: Bethlehem Foundry and Machine Company; Bethlehem Steel Company.

Swissvale: M. O. Sheckler.

Topton: Topton Foundry and Machine Company.

Tyrone: The J. C. Stine Company.

Waynesboro: Frick Company; L. D. Gilbert; J. W. Little.

Wilkes-Barre: Vulcan Iron Works.

Williamsport: The Eastern Facing Mills; Hermance Machine Company; Valley Iron Works.

York: The Read Machinery Company, Incorporated; York Manufacturing Company.

Zelienople: Herrman Pneumatic Molding Machine Company.

RHODE ISLAND.

Pawtucket: J. S. White Company.

Providence: American and British Manufacturing Company; Barstow Stove Company; Brown & Sharpe Manufacturing Company; Colvin Foundry Company; General Fire Extinguisher Company; New England Butt Company; Saunders & Franklin.

TENNESSEE.

Chattanooga: Judson Buchanan; The Cahill Iron Works; Chattanooga Roofing and Foundry Company; Ross-Meehan Foundry Company.

Clarksville: Clarksville Foundry and Machine Company; A. H. Patch.

Lenoir City: Lenoir Car Works; C. H. Watson.

Nashville: Cumberland Foundry and Manufacturing Company; Gray & Dudley Hardware Company; Phillips & Buttorf Manufacturing Company.

TEXAS.

El Paso: Darbyshire-Harvie Iron and Machine Company.

San Antonio: Alamo Iron Works.

VERMONT.

Montpelier: Lane Manufacturing Company.

St. Johnsbury: E. & T. Fairbanks Company.

VIRGINIA.

Richmond: Richmond Foundry and Machine Company; Starke's Dixie Plow Works.

Roanoke: Virginia Coal, Iron and Coke Company; E. C. Walsh.

Staunton: Dr. John J. Porter.

WEST VIRGINIA.

Fairmont: Fairmont Mining Machinery Company; Helmick Foundry and Machine Company.

Piedmont: Piedmont Foundry and Machine Company.

Powellton: The Mount Carbon Company.

Wheeling: Wheeling Mold and Foundry Company.

WISCONSIN.

Beaver Dam: Malleable Iron Range Company.

Beloit: Berlin Machine Works; Fairbanks, Morse & Co.

Brillion: Brillion Iron Works.

De Pere: The C. A. Lawton Company.

Green Bay: Jos. F. Rothe.

Janesville: The Janesville Machine Company.

Kenosha: The Simmons Manufacturing Company.

La Crosse: La Crosse Plow Company.

Milwaukee: The Bucyrus Company; Chain Belt Company; Dings Electromagnetic Separator Company; A. J. Lindemann & Hoverson Company; David J. McLain; Pawling & Harnishfeger; Sheriff Manufacturing Company; Sterling Wheelbarrow Company.

Port Washington: Gilson Manufacturing Company.

Racine: Belle City Malleable Iron Company; J. I. Case Plow Works.

Sheboygan: J. M. Kohler Sons Company.

Waukesha: I. G. Brown.

CANADA.**BRITISH COLUMBIA.**

Vancouver: Vancouver Engineering Works, Limited.

MANITOBA.

Winnipeg: L. L. Anthes (Honorary Member); The Western Steel and Iron Company, Limited.

NEW BRUNSWICK.

St. John: James Fleming.

NOVA SCOTIA.

Amherst: Amherst Foundry Company, Limited.

Halifax: Hillis & Sons, Limited.

ONTARIO.

Aurora: J. Fleury's Sons.

Bowmanville: The Bowmanville Foundry Company, Limited.

Brantford: Cockshutt Plow Company, Limited; Verity Plow Company, Limited; C. H. Waterous.

ONTARIO.—*Continued.*

Brockville: The James Smart Manufacturing Company, Limited.

Carlton Place: Findlay Brothers.

Dundas: The John Bertram Sons Company, Limited.

Galt: Canada Machinery Corporation; Messrs. Galt Malleable Iron Company, Limited; The Galt Stove and Furnace Company, Limited; The Goldie & McCullough Company, Limited; The R. McDougall Company, Limited.

Guelph: The Raymond Manufacturing Company of Guelph, Limited; Taylor-Forbes Company, Limited.

Hamilton: H. V. Hamilton; Sawyer-Massey Company, Limited.

Kingston: Canadian Locomotive Company.

London: The McClary Manufacturing Company; Geo. White & Sons Company, Limited; The Wortman & Ward Company, Limited.

Meaford: J. H. Cleland.

Midland: Midland Engine Works Company.

New Liskeard: H. A. McEwen.

Oshawa: The Ontario Malleable Iron Company, Limited.

Owens Sound: The Wm. Kennedy & Sons Company, Limited.

Port Hope: Standard Ideal Company, Limited.

Preston: Clare Bros. & Co., Limited.

Sarnia: The John Goodison Thresher Company, Limited.

Smith's Falls: The Frost & Wood Company, Limited; Smith's Falls Malleable Castings Company, Limited.

Toronto: Anthes Foundry Company, Limited; The Canadian Rumely Company, Limited; Dodge Manufacturing Company, Limited; W. R. Glasgow; Massey-Harris Company, Limited; Ontario Wind Engine and Pump Company; Pease Foundry Company, Limited; Steel and Radiation, Limited; Geo. W. Watts.

Walkerville: H. O. Kerr.

Welland: Dain Manufacturing Company, Limited.

Weston: J. K. Moffat.

Wingham: The Western Foundry Company, Limited.

Woodstock: Chas. E. Stewart.

QUEBEC.

Buckingham: The Electric Reduction Company, Limited.

Montreal: T. J. Best; Canadian Steel Foundries, Limited; Milton Hersey Company, Limited; John T. Tollaud; Warden, King, Limited.

Terrebonne: The M. Moody & Sons Company.

St. André de Kamouraska: La Compagnie Desjardins.

MEXICO.

San Luis Potosi: J. W. Hall.

EUROPE.

BELGIUM.

Brussels: Jules Brasseur.

ENGLAND.

Birmingham: Prof. Thomas Turner (Honorary Member).

London: Sir Robert Hadfield.

Middlesbrough: J. E. Stead.

FRANCE.

Paris: E. Ronceray, 9 Rue des Envierges.

GERMANY.

Gremsdorf: A. Wiedermann.

SUMMARY

UNITED STATES.		Nebraska.....	2	Manitoba.....	2
Alabama.....	7	Nevada.....	1	New Brunswick.....	1
Arizona.....	1	New Hampshire ...	2	Nova Scotia.....	2
California.....	4	New Jersey.....	28	Ontario.....	45
Colorado.....	2	New York.....	97	Quebec.....	7
Connecticut.....	27	North Carolina.....	3		—
Delaware.....	2	Ohio.....	89	Total.....	58
Dist. of Columbia...	1	Oklahoma.....	1		
Georgia.....	6	Oregon.....	1	MEXICO.	
Idaho.....	1	Pennsylvania.....	152	San Luis Potosi.....	1
Illinois.....	50	Rhode Island.....	8		
Indiana.....	13	Tennessee.....	11	EUROPE.	
Iowa.....	7	Texas.....	2	Belgium	1
Kentucky.....	4	Vermont.....	2	England.....	3
Maine.....	1	Virginia.....	5	France.....	1
Maryland.....	5	West Virginia.....	5	Germany.....	1
Massachusetts.....	36	Wisconsin.....	22		—
Michigan.....	31	Total.....	650	Total.....	6
Minnesota.....	5				
Missouri.....	15	CANADA.		Grand Total.....	
Montana.....	2	British Columbia...	1	715	

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